SANYO

FILE NO.

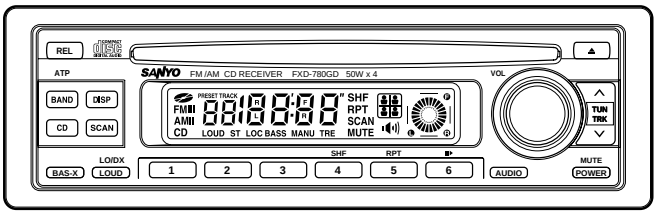
SERVICE MANUAL

Full Panel Detachable High Power FM/AM Stereo Receiver Compact Disc Player

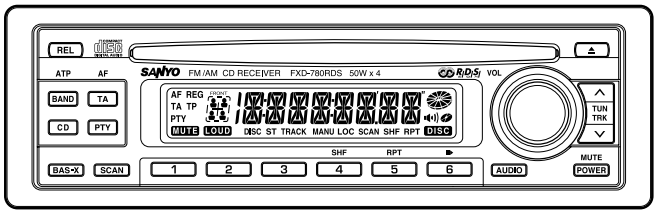
FXD-780GD (SS)
114782850

FXD-780GD (BK.SS)
114782855

FXD-780RDS (XE)
114782851



FXD-780GD



FXD-780RDS

Contents

SERVICE NOTES and PRECAUTIONS 1
ELECTRICAL ADJUSTMENTS 4
BLOCK DIAGRAM 11
IC/TRANSISTOR LEAD IDENTIFICATION 13
CD MECHANISM EXPLODED VIEW 15
CABINET & CHASSIS EXPLODED VIEW 16
PARTS LIST - CABINET, CHASSIS AND ACCESSORIES 17
PARTS LIST - CD MECHANISM 19
PARTS LIST-MAIN 21
PARTS LIST-DISP 30
PARTS LIST-RF33 32
SCHEMATIC DIAGRAM 38
CIRCUIT BOARD DIAGRAM 44

REFERENCE No. SM-7900010

Specifications

FM TUNER

Tuning Range	87.5 - 107.9 MHz. (200 KHz. step) 87.5 - 108.0 MHz. (50 KHz. step)
Sensitivity	1.5 μV
Separation	30 dB
Signal-to-Noise Ratio	65 dB (stereo), 70 dB (mono)

AM TUNER

Tuning Range	530 - 1,710 KHz. (10 KHz. step) 531 - 1,602 KHz. (9 KHz. step)
Sensitivity	20 μV
Signal-to-Noise Ratio	45 dB

CD PLAYER

Frequency Response	20 - 20,000 Hz.
Signal-to-Noise Ratio	90 dB
Channel Separation	60 dB
Dynamic Range	90 dB
Harmonic Distortion	0.2 %

AUDIO AMPLIFIER & GENERAL

Maximum Output Power	50 W x 4 channels
Output Wiring	Floating-Ground type designed for 4-speaker use RCA low-level outputs: 2 channels
Output Impedance	4 - 8 ohms
Power Supply	12 volts DC, negative ground

Specifications are subject to change without notice.

SERVICE NOTES AND PRECAUTIONS

SERVICE NOTES

1. Make sure that the power lead is connected properly to power source, otherwise damage to radio may result. If a battery eliminator is used as a power source in place of a battery, it must be filtered and regulated. (The power supply capacity should be more than 5 amps.)
2. Integrated circuits (ICs) are used in this unit. Because the ICs are direc-coupled devices, as to all electronic equipment, reading within 10% of the indicated values are acceptable. Allowance must also be made for variations in supply voltage. It is expected that any breakdown within the IC results in drastic changes of the operating voltages at the terminals.
3. When replacing a power output IC, remember to use the IC specified in the parts list; Coat the IC-fin with silicon grease.

WARNING

In using meters, signal generator and any tool in servicing Ics, extreme care is needed. **DO NOT SHORT** THE IC TERMINALS TO THE PATTERN ON THE PC BOARD OR TO EACH OTHER. THE IC WILL BE INSTANTANEOUSLY DESTROYED.

ALIGNMENT PROCEDURE

Alignment is performed at factory with laboratory equipment. Therefore, before alignment is attempted, the unit should be thoroughly checked for circuit troubles.

NOTES:

1. Check for specified source voltage-DC, 14.4volts.
2. Connect an AC voltmeter (AC VM) across speaker or dummy load (4 ohms. 20W, wirewound resistor)...see Fig. 11-3. (ELECTRICAL ADJUSTMENTS)
3. Signal input must be kept as low as possible to avoid overload and clipping (use highest sensitivity of output indicator).
4. Repeat adjustment to ensure good results.
5. Non-metallic alignment tools must be used (especially at FM alignment).
6. For alignment location details, refer to CIRCUIT BOARD DIAGRAM.

INSTALLATION PROCEDURE

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the wiring harness wires in the following order: ground, speakers, battery, ignition.
4. Connect the wiring harness connector to the unit.
5. Install the unit in your car.
6. Reconnect the ⊖ battery.
7. Disinstall by reversing the installation procedure.

⚠ CAUTION

- The rear-panel which also heatsink is very hot. Don't burn!!
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the cover will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Insulate unconnected wires with vinyl tape or other similar material .

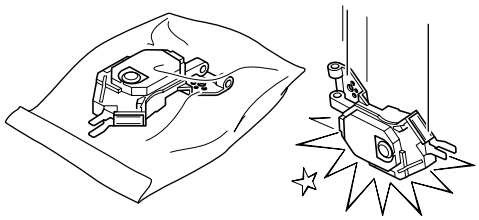
SERVICE NOTES AND PRECAUTIONS

LASER BEAM SAFETY PRECAUTIONS

NOTES FOR TRANSPORT AND STORAGE

1. The pickup should always be kept in its conductive bag until use.
2. The pickup should never be subjected to external pressure or impact.

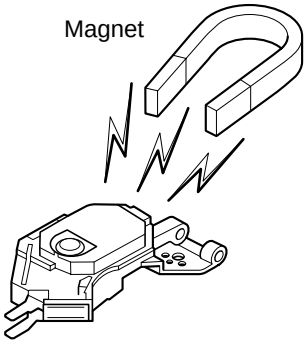
Storage in conductive bag　　Drop impact



GOOD　　NG

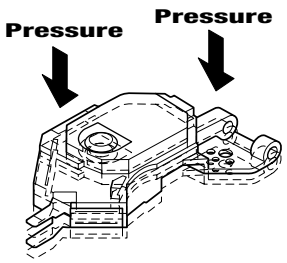
REPAIR NOTES

1. The pickup incorporates a strong magnet, and so should never be brought close to magnetic materials.



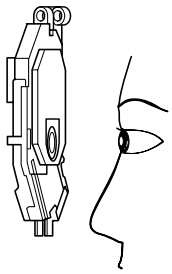
NG

2. The pickup should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed circuit board.



3. Each and every pickup is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should be absolutely never be touched.

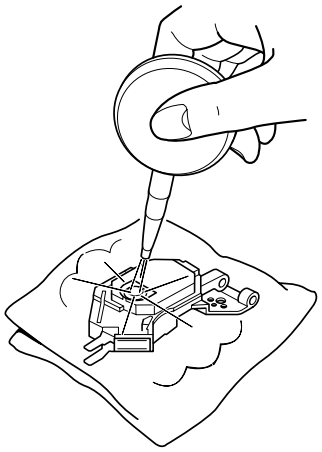
4. Laser beam may damage the eyes!
   Absolutely never permit laser beams to enter the eyes!
   Also NEVER switch ON the power to the laser output part (lens, etc.) of the pickup if it is damaged.



Laser Beam
NEVER look directly at the laser, and do not let contact fingers of other exposed skin.

NG

5. Cleaning the lens surface
   If there is dust on the lens surface, the dust should be cleaned away by using an air brush (such as one used for camera lens). The lens is held by a delicate spring.



Conductive Sheet

6. Never attempt to disassemble the pickup.

SERVICE NOTE AND PRECAUTIONS

STATIC ELECTRICITY

The CD pickup might suffer destruction by static electricity during spare-parts maintenance or replacement, although it is stable when connected to the circuit in the CD unit. The destruction might be caused because the laser diode terminal will be electrically open. To prevent the terminal from being open, do the following steps:

1. When you replace the CD pickup, or remove the CD unit from the car stereo unit for any maintenance purpose, solder the copper foil pattern indicated in **Fig. 1** and **Fig. 2** below to short-circuit the connector PCB and flexible wire of the CD unit. Perform your intended maintenance work with the flexible wire short-circuited.
2. If the original CD pickup may possibly be reused, make a short circuit in the area indicated in **Fig. 3** first. Then remove the pickup and perform the work.
3. The CD Pickup OPTIMA-715K2, which is supplied as one of the spare parts, is already short-circuited with the copper foil pattern pre-soldered indicated in **Fig. 3** below. To handle this CD Pickup, keep the short circuit as it is. Then attach the Pickup to the unit and connect the flexible wire to the connector.
4. After performing the work, eliminate the short circuit by removing the solder at its respective short-circuited area described in 1, 2 and 3 above.
5. Insert a CD. If the E-01 or E-02 error should appear on the display on the face plate, check the area mentioned in 4 above, where the short circuit may not have been eliminated.
6. Note that the semi-fixed VR equipped with the CD Pickup OPTIMA-715K2 must not be turned. You cannot make any adjustment to the semi-fixed VR, which is completely adjusted when shipped at the factory.

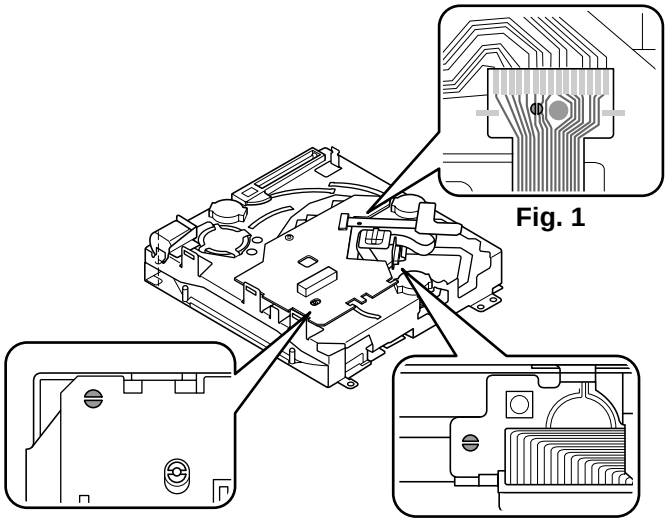


Fig. 1

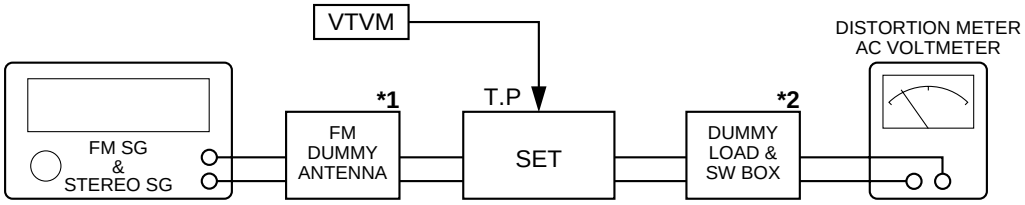
Fig. 2

Fig. 3

ELECTRICAL ADJUSTMENTS

ALIGNMENT OF FM RF & IF SECTION

Set the radio for FM reception. FM signal generator should be coupled with antenna receptacle, through dummy.



***1 :** Refer to “DUMMY BOX SCHEMATIC” (Page 10) Fig.11-2
***2 :** Refer to “DUMMY BOX SCHEMATIC” (Page 10) Fig.11-3

Fig. 4 * SG frequency should be as accurate as possible.

STEP	GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT INDICATOR	ADJUST-MENT	REMARKS
1	Non-Mod.	87.5MHz	DC VTVM to test point ◇VT◇	—	Check the voltage over than 1.1 V.
2	Non-Mod.	107.9MHz △108MHz	DC VTVM to test point ◇VT◇	**L103** FM OSC	Adjust for 6.9±0.1V
3	98.1MHz 1kHz, 22.5kHz dev. SG att:66dBμ EMF	98.1MHz	AC VTVM to test point*	**L110** FM DET	NULL VOLTAGE to become -20±20mV.
4	98.1MHz 1kHz, 22.5kHz dev. SG att:6dBμ EMF	98.1MHz	AC VTVM across speaker or 4 ohms load	**L107** FM MIX	Adjust for Maximum output Level.
5	98.1MHz 1kHz, 22.5kHz dev. SG att:6dBμ EMF	88.5MHz	AC VTVM across speaker or 4 ohms load	**L110** FM ANT **L102** FM RF	Adjust for Maximum output Level.
6	88.5MHz 107.9 (108)MHz SG att:6dBμ EMF	87.5MHz 107.9 (108.0) MHz	AC VTVM across speaker or 4 ohms load	**L100** FM ANT **L102** FM RF	Check for SPEC.
7	98.1MHz SG att:25dBμ EMF	98.1MHz TEST MODE*2	Adjust so that the “**ST**” mark of LCD Display appears	**R129** FM SD	Sensitivity of the seeking frequency.
7* RDS	98.1MHz 1kHz, 22.5kHz dev. SG att:33dBμ EMF	98.1MHz TEST MODE*2	Adjust like to appear for 0.95 of LCD Display	**R204**	Sensitivity of the S meter.

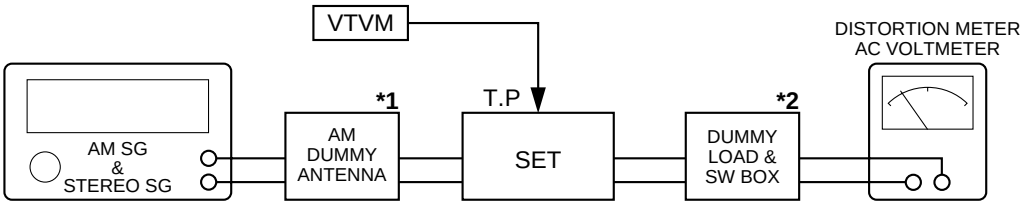
*1 : Perform step 6 after MPX adjustment of the following page (page 6).

*2 : Setting up TEST MODE at page 7.

ELECTRICAL ADJUSTMENTS

ALIGNMENT OF AM RF & IF SECTION

Set the radio for AM reception. AM signal generator should be coupled with antenna receptacle through dummy.
Set VOLUME control to maximum and TONE to center. Attenuate signal generator output to maintain 0.5 watts (1.4 volts across 4 ohms load) on AC voltmeter.



***1 :** Refer to “DUMMY BOX SCHEMATIC” (Page 10) Fig.11-1
***2 :** Refer to “DUMMY BOX SCHEMATIC” (Page 10) Fig.11-3

Fig. 5 * SG frequency should be as accurate as possible.

STEP	GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT INDICATOR	ADJUST-MENT	REMARKS
1	Non-Mod.	◎ 530kHz △ 531kHz	DC VTVM to test point ⟨VT⟩	—	Check the voltage over than 2.5V.
2	Non-Mod.	◎ 1710kHz △ 1602kHz	DC VTVM to test point ⟨VT⟩	—	Check the voltage less than 7.5V.
3	1000kHz, △999kHz 400Hz 30% MOD SG att: 20dBμ EMF	◎ 1000kHz △ 999kHz	AC VTVM across speaker(L or R) or 4 ohms load	**L108** AM IFT1 **L111** AM IFT2	Adjust for Maximum output Level.
4	1000kHz, △999kHz 400Hz 30% MOD SG att: 30dBμ EMF	◎ 1000kHz △ 999kHz TEST MODE*	Adjust so that the “**ST**” mark of LCD Display appears	**R124** AM SD	Sensitivity of the seeking fre-quency.

* Setting up TEST MODE at page 7.

ELECTRICAL ADJUSTMENTS

ALIGNMENT OF FM MULTIPLEX SECTION

FM signal generator should be modulated by FM stereo signal generator.

Modulation level: 19kHz 10% (7.5kHz dev)
1000Hz 30% (22.5kHz dev)

FM signal generator output level: 66dBμ (1mV)

Frequency: 98.1 MHz.

Set the radio for FM reception and tune to signal. Adjust volume control to provide 0.5 watt on AC VTVM and tone to center. Set L/R balance control for equal output at each channel.

STEP	MODULATION FREQUENCY	OUTPUT INDICATOR	ADJUST-MENT	REMARKS
1	19kHz & 1000Hz (Left Channel) SG att:66dBμ EMF	AC VTVM across Right speaker or Right channel load	R137	Adjust for minimum.
2	19kHz & 1000Hz (Right Channel)	AC VTVM through Left speaker or Left channel load	R137	Check for minimum.
3	19kHz & 1000Hz (Left Channel) SG att:45dBμ EMF	AC VTVM across Right speaker or Right channel load	R156	Adjust for 20dB Separation.

ELECTRICAL ADJUSTMENTS FOR FXD-780GD

SETTING UP TEST MODE AT STEP 4 FOR AM & STEP 7 FOR FM

Press the ③ ***POWER*** button to turn the power off. Next, use the following procedure with the front panel switches to set the mode to the test mode shown in Step 4 for AM and Step 7 for FM.

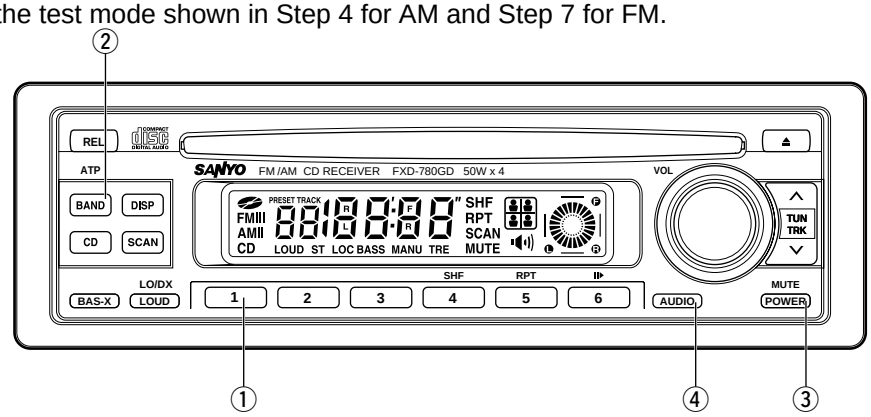


Fig. 6

1. While the power is off, press the ① ***PRESET 1*** button. Then press the ② ***BAND*** button and ③ ***POWER*** button simultaneously to enable the ② ***BAND*** button to be used at the moment the power comes on.
2. If the above operation is successful all the figures on the LCD light up, check that you have entered test mode. **Fig. 7 (A)**.
3. Press the ④ ***AUDIO*** button once. The display shown in **Fig. 7 (B)** appears on the LCD and the unit enters DX mode. Then, while receiving FM 98.1MHz rotate the Semi-fixed VR R129 on the TUNER UNIT (RF33) to adjust the LCD until the stereo mark light "***ST***" is on. **Fig. 7 (B)'**.
4. Press the ④ ***AUDIO*** button, if the display changes to that shown in **Fig. 7 (C)** the unit is in Local mode. Check that the "***ST***" mark is displayed (for specific: Input level is 12 ~ 28dB higher than that of the DX mode).
5. Press the ② ***BAND*** button, if the display changes to that shown in **Fig. 7 (D)** or **(D)'** receiving AM 1000 kHz or *(999) kHz.
6. Then press the ④ ***AUDIO*** button, if the display changes to that shown in **Fig. 7 (E)** the unit is in DX mode. Rotate the Semi-fixed VR R124 on the TUNER UNIT (RF33) to adjust the LCD until "***ST***" mark lights up.
7. Then press the ④ ***AUDIO*** button, if the display changes to that shown in **Fig. 7 (F)** the unit is in Local mode. Check that the "***ST***" mark is displayed. (for specific: Input level is 12 ~ 28dB higher than that of DX mode).
8. Turn off the power to release the test mode.

TEST MODE CHART

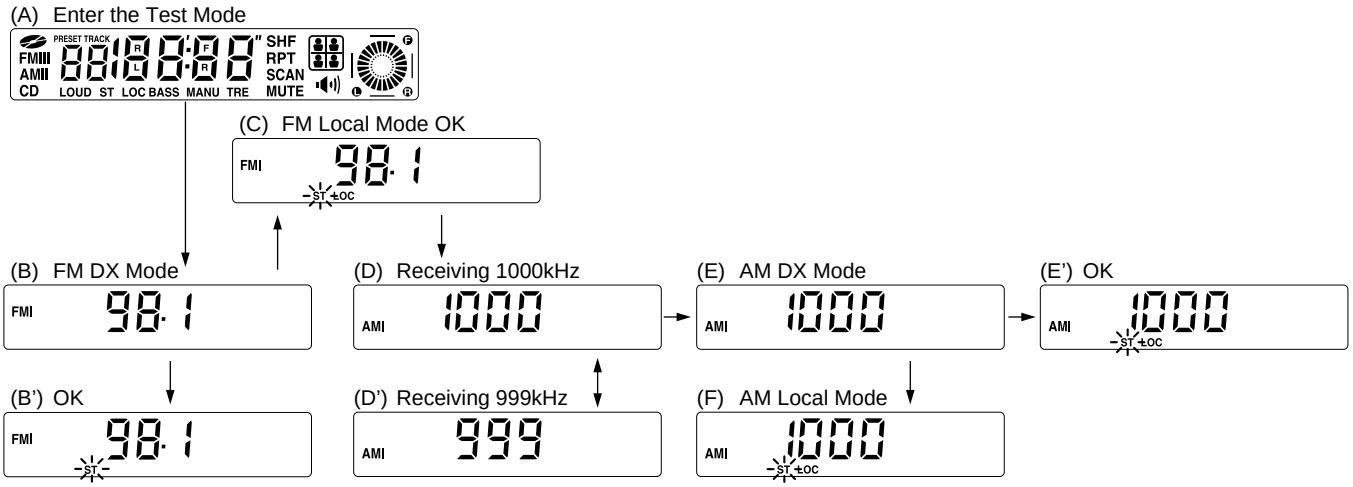


Fig. 7

ELECTRICAL ADJUSTMENTS FOR FXD-780RDS

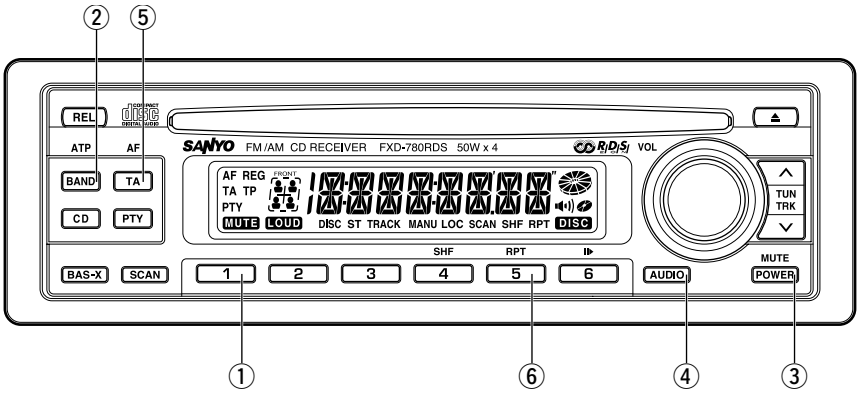
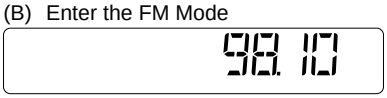


Fig. 8

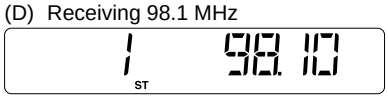
TEST MODE CHART

(A) Enter the Test Mode

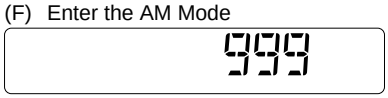
(B) Enter the FM Mode



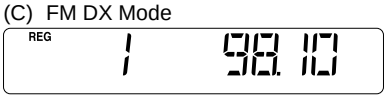
(D) Receiving 98.1 MHz



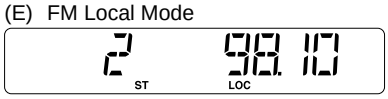
(F) Enter the AM Mode



(C) FM DX Mode



(E) FM Local Mode



(G) AM DX Mode

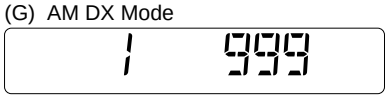


Fig. 9

1. While the power is off, press the ① ***PRESET 1*** button. Then keep pressing the ② ***BAND*** button, press the ③ ***POWER*** button simultaneously. All the figures on the LCD lights up **Fig. 9 (A)** enters the TEST mode.

2. Press the ④ ***AUDIO*** button after step 1, the unit enters FM seek adjust mode of the DX mode. **Fig. 9 (C)**
   Rotate the R129 on the PC Board Ass'y (RF33R) to adjust the LCD until the STEREO indicator lights up. **Fig. 9 (D)**

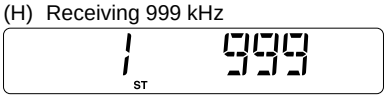
3. Press the ④ ***AUDIO*** button again after step 2, the unit enters the LOCAL mode. Check that the STEREO indicator is displayed (for specific: Input level of Signal Generator is 12 ~ 28dB higher than that of the DX mode). **Fig. 9 (E)**

4. By pressing the ② ***BAND*** button in the steps 1 to 3 enters the unit to the AM mode. **Fig. 9 (F)**

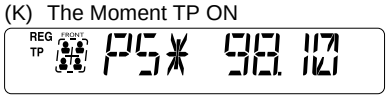
5. Press the ④ ***AUDIO*** button, the unit enters SEEK adjustment mode of the DX mode. **Fig. 9 (G)**
   Rotate the R124 on the PC Board Ass'y (RF33R) to adjust the LCD until the STEREO indicator lights up. **Fig. 10 (H)**.

6. Pressing the ④ ***AUDIO*** button again after step 5, the unit enters th LOCAL mode. Check that the STEREO indicator is displayed (for specific: Input level of Signal Generator is 12 ~ 28dB higher than that of the DX mode). **Fig. 10 (I)**

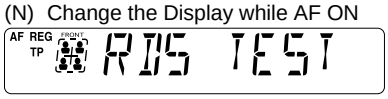
(H) Receiving 999 kHz



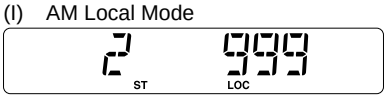
(K) The Moment TP ON



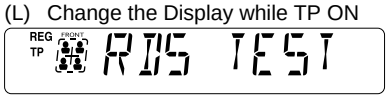
(N) Change the Display while AF ON



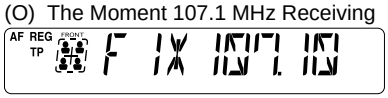
(I) AM Local Mode



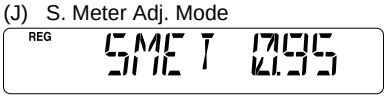
(L) Change the Display while TP ON



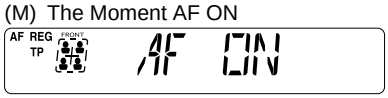
(O) The Moment 107.1 MHz Receiving



(J) S. Meter Adj. Mode



(M) The Moment AF ON



(P) Change the Display while 107.1 MHz Receiving

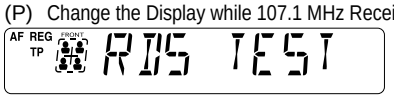


Fig. 10

7. Press the ⑤ ***TA*** button in the step 1, the unit enters the S meter adjustment mode. Rotate the R208 on Main PCB to adjust the LCD until the 0.95 lights up. **Fig. 10 (J)**

8. ③ ***POWER*** OFF and ON. Release the test mode.

9. ③ ***POWER*** OFF and press the ⑥ ***PRESET 5***.
   SG 98.1 MHz, MOD. 75kHz, INT MOD. EXT, att 66dBμ
   RDS 1.0%, MOD. 30% 1 kHz, MONO, RDS ON, TP ON, SK OFF, BK OFF.

10. Confirm the "***TP***" indicator on the LCD lights up.
    Fig. 10 (K) → **(L)** soon. So RDS ON Sensitivity is OK.

11. Press the ① ***PRESET 1*** button for more than 2 seconds. (Memorize the RDS).

12. Press the ⑤ ***TA*** button for more than 2 seconds and confirm the "***AF***" indicator on the LCD lights up. **Fig. 10 (M)** → **(N)** soon.
    SG 107.1 MHz, MOD. 75kHz, INT MOD. EXT, att 66dBμ
    RDS 1.6%, MOD. 30% 1 kHz, MONO, RDS ON, TP ON, SK OFF, BK OFF.

13. Press the ① ***PRESET 1*** button. Confirm the receiving 107.1 MHz automatically. So the LCD indicator displays **Fig. 10 (O)** → **(P)**.

ELECTRICAL ADJUSTMENTS

DUMMY BOX SCHEMATIC

● **AM DUMMY ANTENNA**

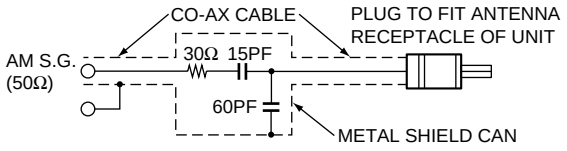


Fig. 11-1

● **FM DUMMY ANTENNA**

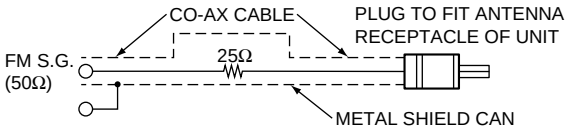


Fig. 11-2

● **DUMMY LOAD & SWITCH BOX (FOR STEREO UNIT)**

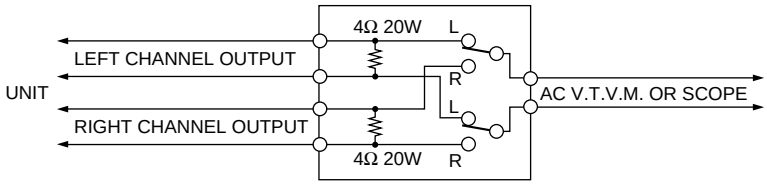
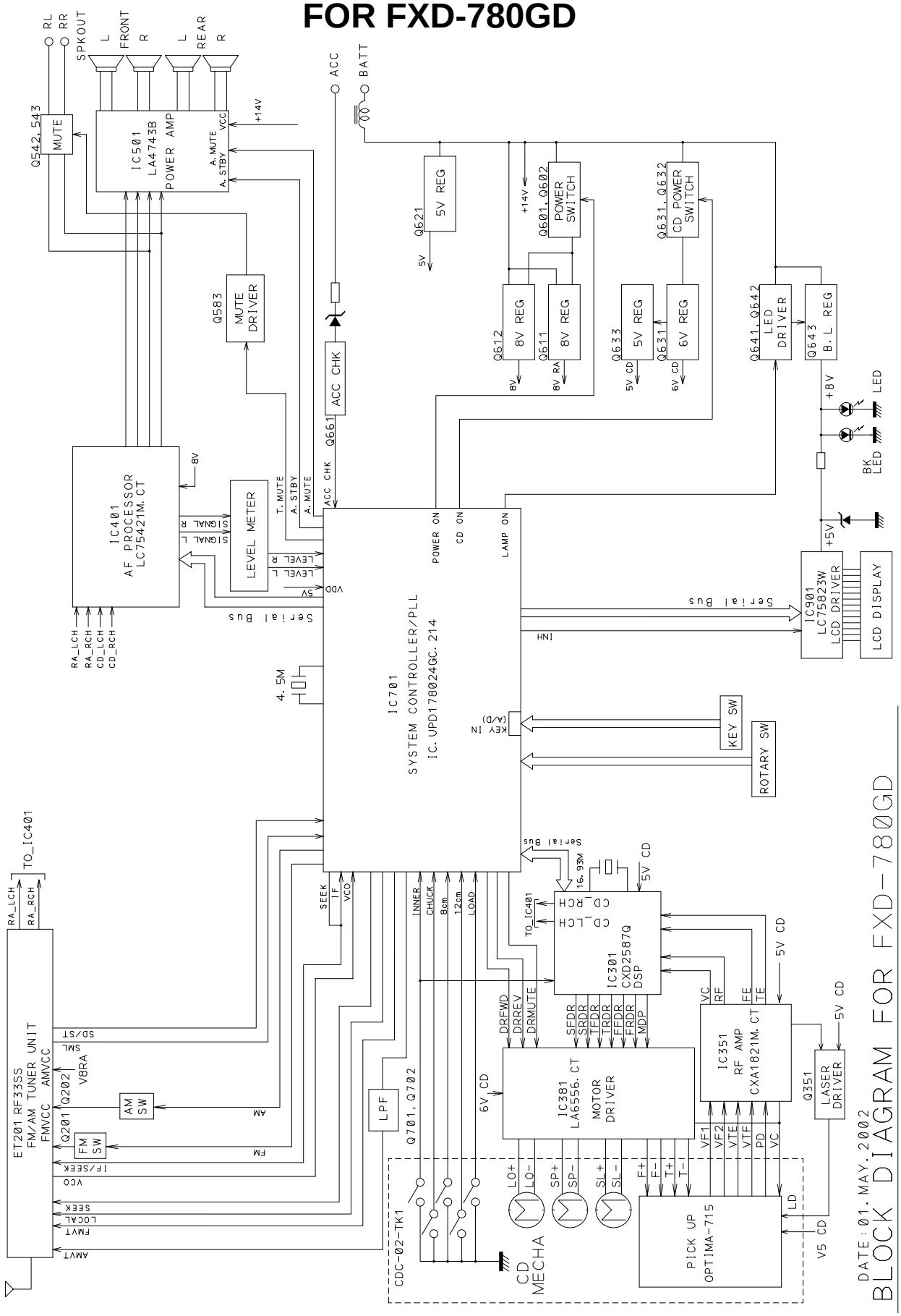
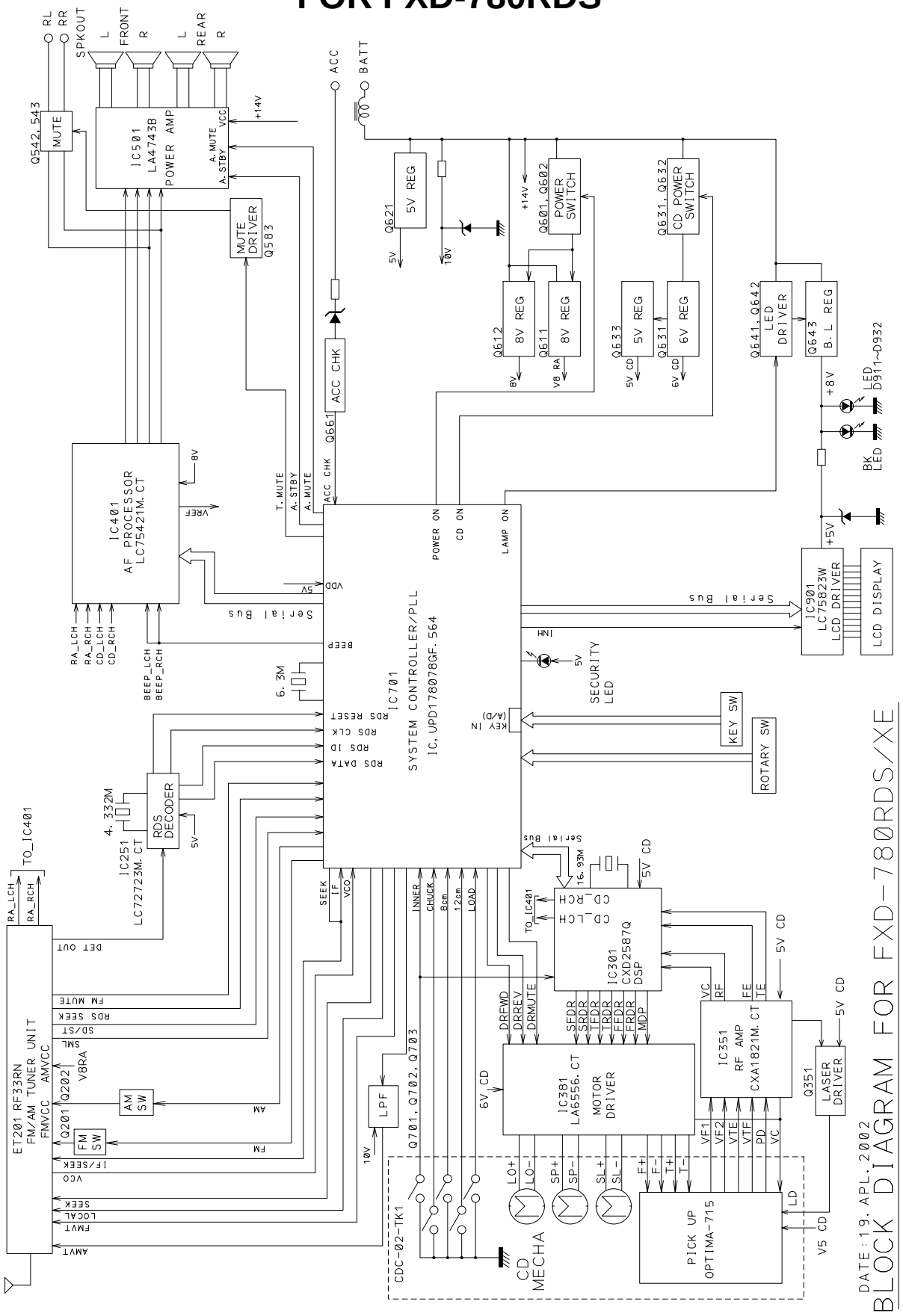


Fig. 11-3

BLOCK DIAGRAM FOR FXD-780GD



BLOCK DIAGRAM FOR FXD-780RDS

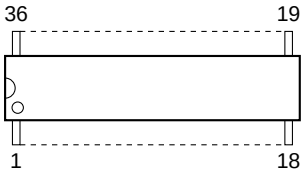


DATE:19. APL. 2002

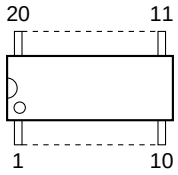
BLOCK DIAGRAM FOR FXD-780RDS/XE

IC/TRANSISTOR LEAD IDENTIFICATION FOR FXD-780GD

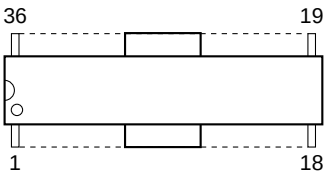
TOP VIEW or SIDE VIEW



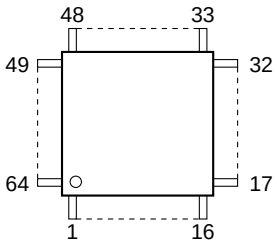
IC401 : LC75421M-CT



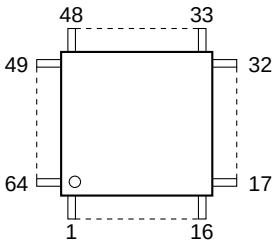
IC351 : CXA1821M-CT



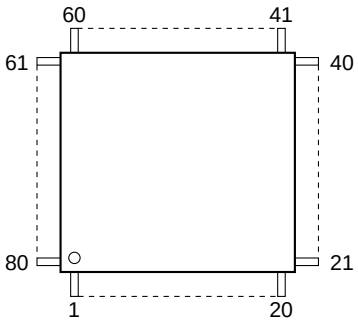
IC381 : LC6556-CT



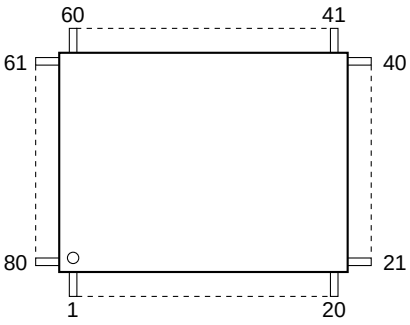
IC901 : LC75823W



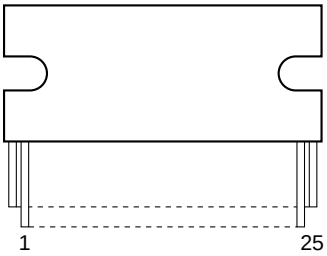
IC101 : LA178IM



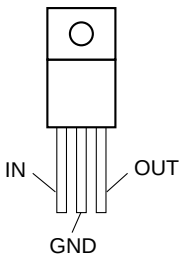
IC301 : CXD2587Q



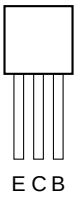
IC701 : UPD178024GC



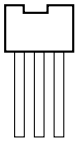
IC501 : LA4743B



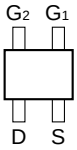
IC631: KIA7806API



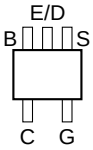
Q612: KTC3199T-Y, GR
Q621: KTC3199T-Y, GR
Q633: 2SD1468ST-R, S



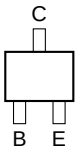
Q601: 2SB1326T-R
Q611: 2SD1858T-Q, R
Q631: 2SB1326T-Q, R



Q100: 3SK263T-5



Q111: FC18T-F, G



Q105 : 2SC4081T106-Q, R
Q106 : DTC114TKAT

Q661, Q702 } 2SC2412KT-Q, R

Q542, Q543 } DTC143TKAT

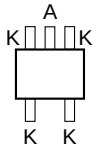
Q201, Q202, Q583, Q641 } DTA124EKAT

Q602, Q632, Q642 } DTC124EKAT

Q351: 2SB815T-B6, B7

Q701: 2SD21030TX-T

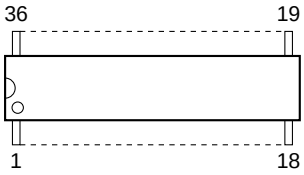
Q643: 2SD2375-Q, P



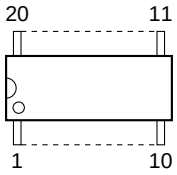
D901 : HZM6.2Z FA

IC/TRANSISTOR LEAD IDENTIFICATION FOR FXD-780RDS

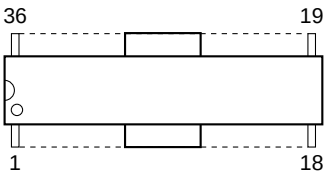
TOP VIEW or SIDE VIEW



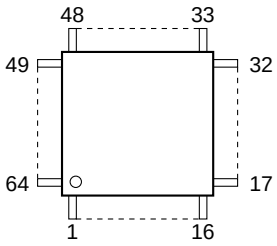
IC401 : LC75421M-CT



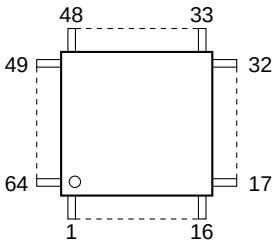
IC351 : CXA1821M-CT



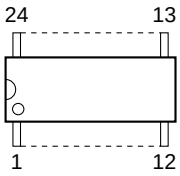
IC381 : LC6556-CT



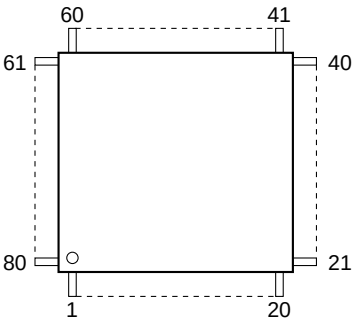
IC901 : LC75823W



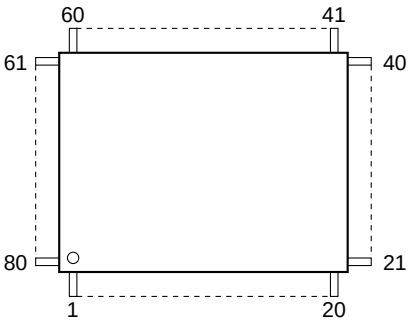
IC101 : LA178IM



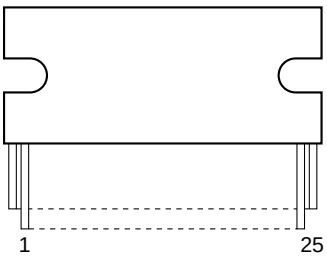
IC251 : LC72723M-CT



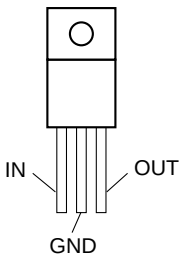
IC301 : CXD2587Q



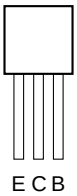
IC701 : UPD178078GF



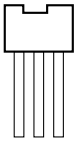
IC501 : LA4743B



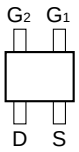
IC631: KIA7806API



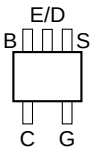
Q612: KTC3199T-Y, GR
Q621: KTC3199T-Y, GR
Q633: 2SD1468ST-R, S



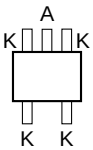
Q601: 2SB1326T-R
Q611: 2SD1858T-Q, R
Q631: 2SB1326T-Q, R



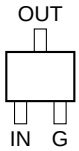
Q100: 3SK263T



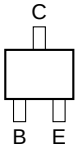
Q111: FC18T-F, G

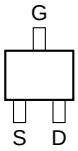


D901 : FTZ6.8E



Q115 : DTA114EKAT





Q116 : 2SK303T-3, 4

Q105 : 2SC4081T106-Q, R
Q661 : 2SC2412KT-Q, R

Q542, Q543 } DTC143TKAT

Q106, Q110, Q117 } DTC114TKAT

Q201, Q202, Q583, Q641 } DTA124EKAT

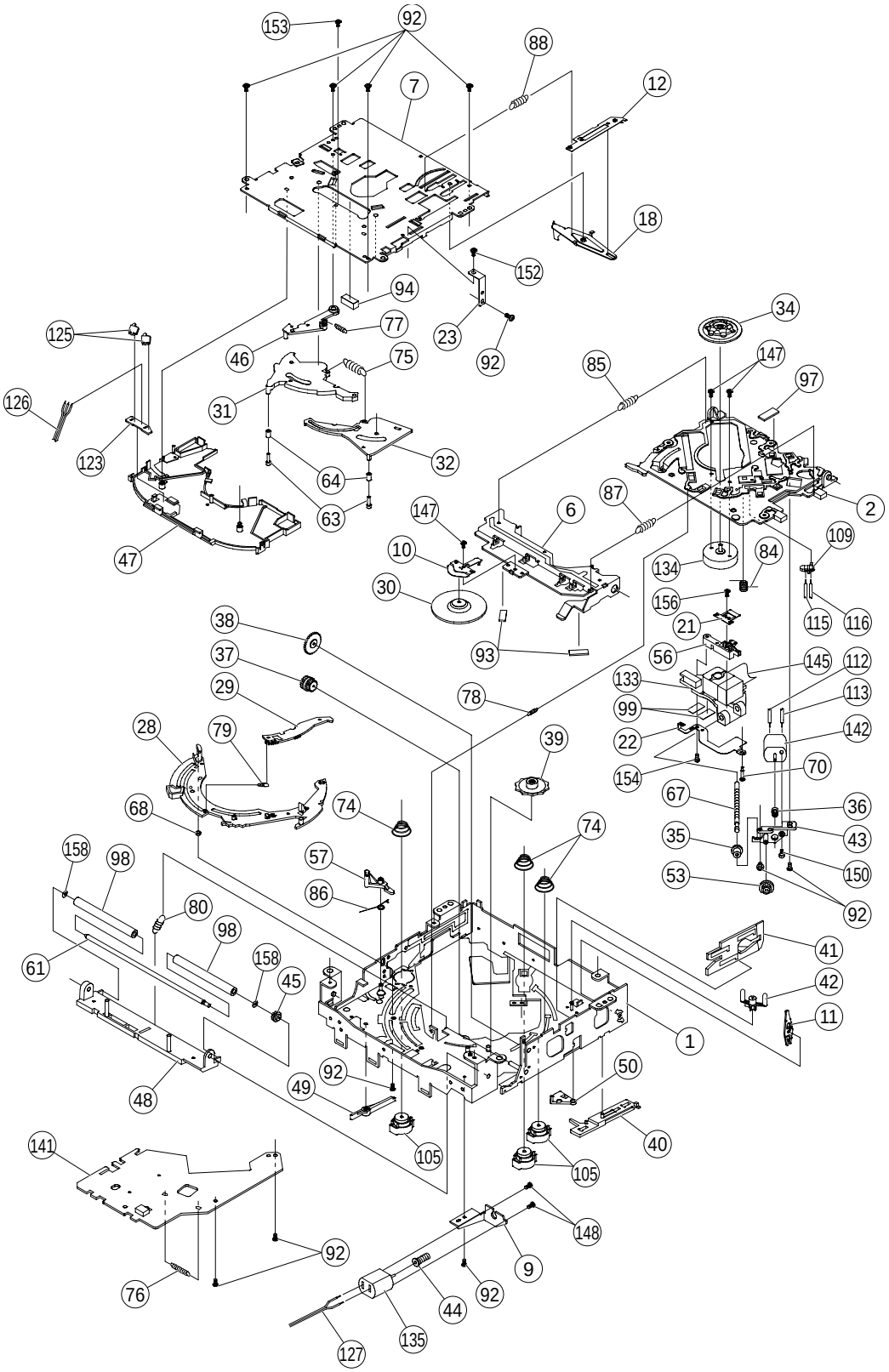
Q602, Q632, Q642 } DTC124EKAT

Q351: 2SB815T-B6, B7

Q701: 2SK1581T

Q643: 2SD2375-Q, P

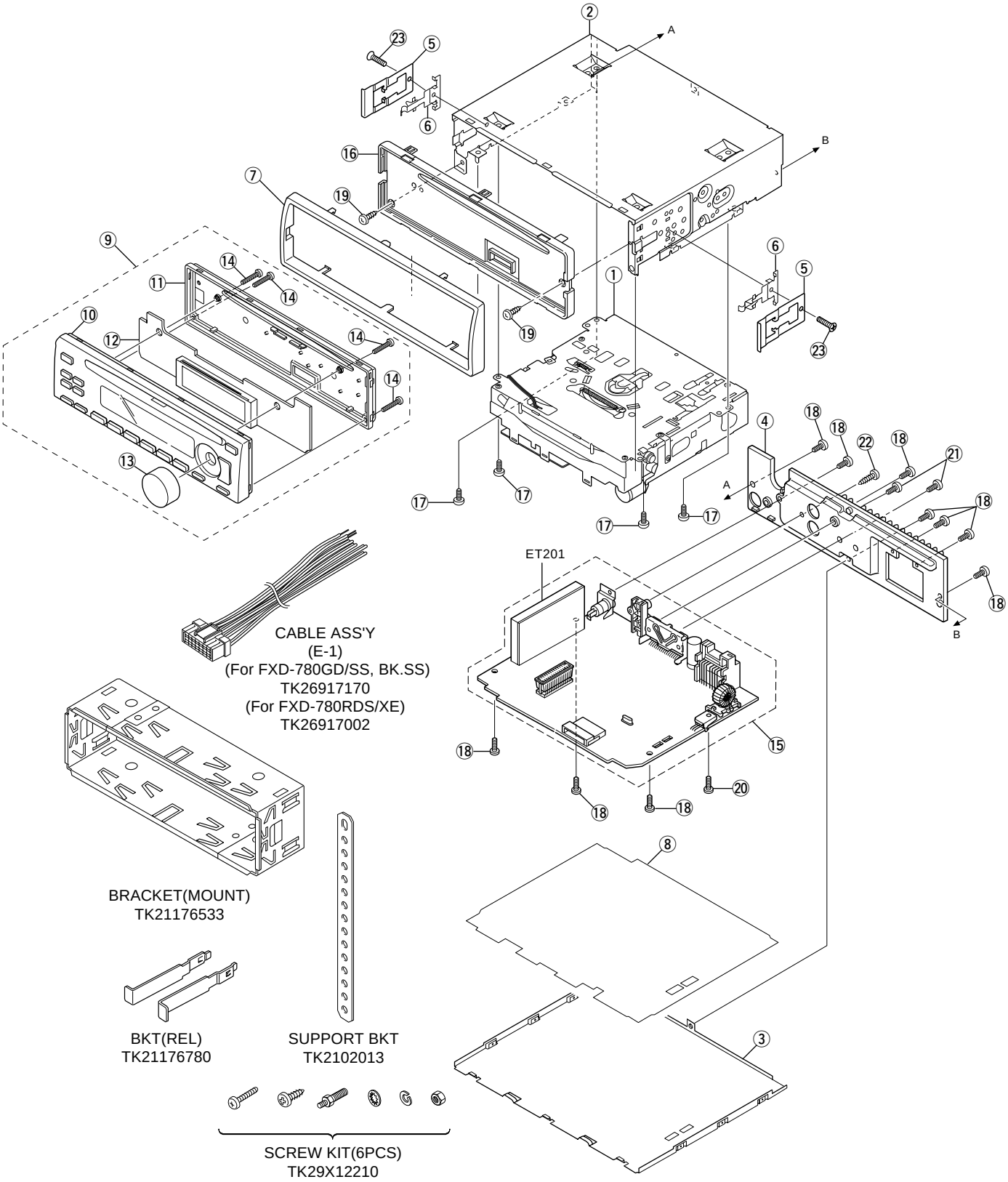
CD MECHANISM EXPLODED VIEW
(MECHANISM #5BB002)



NOTE:

Parts from the deck mechanism exploded view and parts list are only for technical reference. These parts may or may not be individually available.

CABINET & CHASSIS EXPLODED VIEW



PARTS LIST

CABINET & CHASSIS

Ref.No.	PartsNo.	Description
1	TK5BB002	CD DECK MECHANISM (5BB002)
2	TK21035410	CHASSIS ASSY
3	TK21047080	COVER
4	TK21145190	HEATSINK (2P)
5	TK21176820	BKT (STOPPER)
6	TK21291290	PLATE SPRING (REL)
7	TK22060530	ESC ADAPTOR **(FXD-780GD/SS)**
	TK22060520	ESC ADAPTOR **(FXD-780GD/BK.SS)**
	TK22060530	ESC ADAPTOR **(FXD-780RDS/XE)**
8	TK28004780	INSULATOR
9	TKAKC436G9C	FPPART FXD-780GD/SS **(FXD-770GD/SS)**
	TKAKC437G9C	FPPART FXD-780GD/BKSS **(FXD-770GD/BK.SS)**
	TKAKC439G9C	FPPART FXD-780RDS/XE **(FXD-780RDS/XE)**
10	TK22331951	├─ FPASSY (A) 780GD/SS **(FXD-780GD/SS)**
	TK22331991	FPASSY (A) 780GD/BK.SS **(FXD-780GD/BK.SS)**
	TK22331961	FPASSY (A) 780RDS/XE **(FXD-780RDS/XE)**
11	TK22240690	├─ FACE PLATE (B)
12	TK35V49A0	├─ DISPLAY CIRCUIT BOARD **(FXD-780GD/SS, BK.SS)**
	TK35V55A0	DISPLAY CIRCUIT BOARD **(FXD-780RDS/XE)**
13	TK22900510	├─ KNOB (VOL) ASSY **(FXD-770GD/SS, FXD-780RDS/XE)**
	TK22900800	KNOB (VOL) ASSY **(FXD-770GD/BK.SS)**
14	TK29A5208C	└─ TPB2-2X8SSC
15	TK35V44C0	MAIN CIRCUIT BOARD **(FXD-780GD/SS, BK.SS)**
	TK35V49A0	├─ DISPLAY CIRCUIT BOARD
ET201	TK37315B0	└─ BL ASSY RF33SS
15	TK35V48C0	MAIN CIRCUIT BOARD **(FXD-780RDS/XE)**
	TK35V55A0	├─ DISPLAY CIRCUIT BOARD
ET201	TK37314B0	└─ BL ASSY RF33RN
16	TK22331901	FPASSY (C) SANYO **(FXD-780GD/SS, BK.SS)**
	TK22331921	FPASSY (C) SANYO **(FXD-780RDS/XE)**
17	TK2952265A	DPBS-2.6X5SSA
18	TK2952266A	DPBS-2.6X6SSA
19	TK2952266C	DPBS-2.6X6SSC
20	TK2952268A	DPBS-2.6X8SSA
21	TK295226BA	DPBS-2.6X12SSA
22	TK2956308A	DPPB-3X8SSA
23	TK2958266A	DPSS-2.6X6SSA

ACCESSORY

Ref.No.	PartsNo.	Description
—	TK2102013	SUPPORT BKT
—	TK21176533	BKT (MOUNT)
—	TK21176780	BKT (REL)
—	TK22720890	C.CASE ASSY **(FXD-780GD/SS, BK.SS)**
—	TK22720891	C.CASE ASSY **(FXD-780RDS/XE)**
—	TK26917170	CABLE ASSY (E-1) **(FXD-780GD/SS, BK.SS)**
—	TK26917002	CABLE ASSY (P-54C) **(FXD-780RDS/XE)**
—	TK28585540	GIFT BOX 780GD/SS **(FXD-780GD/SS)**
—	TK28585550	GIFT BOX 780GD/BKSS **(FXD-780GD/BK.SS)**
—	TK28585560	GIFT BOX 780RDS/XE **(FXD-780RDS/XE)**
—	TK28940750	& M.KIT 780GD/SS **(FXD-780GD/SS, BK.SS)**
—	TK28940760	& M.KIT 780RDS/XE **(FXD-780RDS/XE)**
—	TK29X12210	SCREW KIT

PARTS LIST-CD MECHANISM

Ref. No.	Part No.	Description
1	TKX10071011	CHASSIS ASSY (TK1)
2	TKX10071005	PICK BASE ASSY
6	TK110051003	CHUCK ARM
7	TK110051004	TOP COVER
9	TK110051006	L.M BRACKET
10	TK110051007	CLAMPER PLATE
11	TK110051008	R ARM
12	TK110051009	RELEASE LEVER
18	TK110051018	SET START ARM
21	TK110071003	SPG GUIDE
22	TK110071004	PICK GUIDE
23	TK110071008	L PLATE
28	TK110052002	CAM GEAR
29	TK110052003	CAM SUB GEAR
30	TK110052004	CLAMPER
31	TK110052005	DISC ARM L
32	TK110052006	DISC ARM R
34	TK110052008	DISC TABLE
35	TK110052009	FEED GEAR A
36	TK110052011	FEED MOTOR GEAR
37	TK110052012	LOAD HELICAL GEAR
38	TK110052013	LOAD GEAR
39	TK110052014	CAM H GEAR
40	TK110052016	KICK LEVER
41	TK110052017	LEVER R
42	TK110052018	LOCK LEVER
43	TK110052019	MOTOR CASE
44	TK110052020	MOTOR WORM
45	TK110052021	ROLLER GEAR
46	TK110052022	SENSOR LEVER
47	TK110052023	TOP GUIDE
48	TK110052024	UP LEVER
49	TK110052025	SW LEVER
50	TK110052027	KICK SUB LEVER
53	TK110052030	FEED GEAR B
56	TK110072002	GUIDE
57	TK110072003	P.B. LOCK
61	TK110053006	ROLLER SHAFT
63	TK110053025	DISC ARM PIN
64	TK110053026	DISC ARM ROLLER
67	TK110073001	FEED SCREW
68	TK110073003	COLLAR
70	TK110073012	FPC PIN
74	TK110054003	DAMPER SP
75	TK110054004	DISC ARM SP
76	TK110054005	LEAD SP
77	TK110054007	SENSOR LEVER SP
78	TK110054008	DAMPER SUB SP
79	TK110054009	SUB GEAR SP

PARTS LIST-CD MECHANISM

Ref. No.	Part No.	Description
80	TK110054010	UP LEVER SP
84	TK110074001	FEED SP
85	TK110074002	CHUCK ARM SP (L)
86	TK110074003	P.B. LOCK SP
87	TK110074004	CHUCK ARM SP (R)
88	TK110074014	STARTSP (B)
92	TK110055003	XP SCREW
93	TK110055004	ARM SHEET
94	TK110055005	CHUCK SHEET
97	TK110075001	DISC SHEET
98	TK110075005	LOADING ROLLER
99	TK110075003	FPC TAPE
105	TK110076002	DAMPER ASSY (T)
109	TK110057007	INNER SW ALPS
112	TK110057011	MOTOR LEAD A
113	TK110057012	MOTOR LEAD B
115	TK110057014	SW LEAD A
116	TK110057015	SW LEAD B
123	TK110057049	SENSOR PCB
125	TK110057076	LOAD SW MIC
126	TK110057077	CORD 3P (D)
127	TK110057078	MOTOR LEAD 2P
133	TK110077006	PICK K2 JVC
134	TK110077007	SPINDLE MOTOR MABUCHI
135	TK110077008	LOAD MOTOR (11) MABUCHI
141	TKX10077030	DUMMY PCB ASSY (TK)
142	TK110027003	MAIN MOTOR MABUCHI
145	TK110077037	FPC(TK)
147	TK210117022P1	(+)P.PRECISION SCREW #1 M1.7x2.2
148	TK210120025P1	(+)P.PRECISION SCREW #1 M2.0x2.5
150	TK210320040P1	(+)P.PRECISION SCREW #3 M2.0x4.0
152	TK213220040P1	S-TYPE #1 WITH GUIDE M2x4
153	TK213914040P1	B-TYPE M1.4x4
154	TK213917035P1	B-TYPE #3 M1.7x3.5
156	TK213917080P1	B-TYPE M1.7x8
158	TK218160050D2	PSW-S 1.6x5x0.25

PARTS LIST

MAIN CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
AJ201	TK196510300	ANT JACK ASSY
C201, C317	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C203, C311	TK157A4730J	CAPACITOR, CHIP, 0.047UF 16V
C204	TK15715R00J	CAPACITOR, CHIP, 5PF 50V
C205, C206	TK157A1830J	CAPACITOR, CHIP, 0.018UF 25V
C207	TK157A1040E	CAPACITOR, CHIP, 0.1UF 25V
C208	TK15713300J	CAPACITOR, CHIP, 33PF 50V
C209, C426	TK15C3106HR	CE-RC3-10M16-T58
C302, C308	TK15712210J	CAPACITOR, CHIP, 220PF 50V
C303, C307	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C304, C705	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C305, C312	TK157C1040J	CAPACITOR, CHIP, 0.1U
C306, C405	TK15C6105CR	CE-RC2-1M50-T58
C309	TK157A3320J	CAPACITOR, CHIP, 3300PF 50V
C310	TK157A1520J	CAPACITOR, CHIP, 1500PF 50V
C313, C316	TK157C1040J	CAPACITOR, CHIP, 0.1U
C314, C315	TK15712200J	CAPACITOR, CHIP, 22PF 50V
C318, C319	TK15712210J	CAPACITOR, CHIP, 220PF 50V
C320, C708	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C321, C390	TK15C2107CR	CE-RC2-100M10-T58
C322, C391	TK157C1040J	CAPACITOR, CHIP, 0.1U
C351, C413	TK15C3106CR	CE-RC2-10M16-T58
C352	TK157A1040J	CAPACITOR, CHIP, 0.1UF 16V
C353	TK15713R00J	CAPACITOR, CHIP, 3PF 50V
C354	TK15714700J	CAPACITOR, CHIP, 47PF 50V
C355	TK157C1050J	CAPACITOR, CHIP, 1UF 10V
C356, C509	TK15C3476HR	CE-RC3-47M16-T58
C381, C382	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C383, C384	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C385, C386	TK157A3330J	CAPACITOR, CHIP, 333 B
C387, C632	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C388	TK157A1530J	CAPACITOR, CHIP, 0.015UF 25V
C394, C395	TK157C1040J	CAPACITOR, CHIP, 0.1U
C403, C416	TK15C6225HR	CE-RC3-2.2M50-T58
C406, C412	TK15C6105HR	CE-RC3-1M50-T58
C407, C420	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C408, C421	TK157A1050J	CAPACITOR, CHIP, 1UF 10V
C409, C422	TK157A4730J	CAPACITOR, CHIP, 0.047UF 16V
C410, C411	TK157A1540E	CAPACITOR, CHIP, 0.15UF 25V
C414, C425	TK15C6105CR	CE-RC2-1M50-T58
C419, C505	TK15C6105HR	CE-RC3-1M50-T58
C423, C424	TK157A1540E	CAPACITOR, CHIP, 0.15UF 25V
C483, C486	TK15C3106CR	CE-RC2-10M16-T58
C501, C502	TK15C6474HR	CE-RC3-0.47M50-T58
C503, C504	TK15C6474HR	CE-RC3-0.47M50-T58
C506, C507	TK15C6105CR	CE-RC2-1M50-T58
C508	TK15C6105HR	CE-RC3-1M50-T58
C510	TK15C3226CR	CE-RC2-22M16-T58
C511	TK15C6224HR	CE-RC3-0.22M50-T58

MAIN CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
C512, C601	TK157C1040J	CAPACITOR, CHIP, 0.1U
C513	TK15C3338K0	CE-RE3-3300M16
C515, J501	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
C551	TK15091060J	CI-1608CH101J100-CT
C581	TK15C6474CR	CE-RC2-0.47M50-T58
C582	TK157B1040E	CAPACITOR, CHIP, 0.1UF 25V
C611, C633	TK15C2107CR	CE-RC2-100M10-T58
C631	TK15C3107CR	CE-RC2-100M16-T58
C634	TK15C3106HR	CE-RC3-10M16-T58
C641, C704	TK157C1040J	CAPACITOR, CHIP, 0.1U
C703	TK15C2227HR	CE-RC3-220M10-T58
C706, C707	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C709, C717	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C710	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C711, C712	TK157C1040J	CAPACITOR, CHIP, 0.1U
C713	TK15712200J	CAPACITOR, CHIP, 22PF 50V
C714	TK15712700J	CAPACITOR, CHIP, 27PF 50V
C715	TK157C1040J	CAPACITOR, CHIP, 0.1U
C716	TK15C6225CR	CE-RC2-2.2M50-T58
C725	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
D351, D481	TK131001901	DIODE, 1SS133T
D482, D612	TK131001901	DIODE, 1SS133T
D601	TK132014800	DIODE, 1N5401
D602	TK131001801	DIODE, 1SS145T
D611	TK134018131	DIODE, ZENER, MTZJ8.2T-C
D621	TK134014511	DIODE, ZENER, MTZJ5.6T-C
D641	TK134014611	DIODE, ZENER, MTZJ9.1T-C
D661	TK131001901	DIODE, 1SS133T
D662	TK134018111	DIODE, ZENER, MTZJ8.2T-B
D709, D710	TK13403310D	DIODE, ZENER, BZX55-C6V8-D8
ET201	TK37315B0	BL ASSY RF33SS
F301	TK175309034	CERAMIC FILTER, FCR16.93M2GT3-FT
F701	TK176418805	X'TAL, HQST-3H-04500-14
IC301	TK112308400	IC, CXD2587Q
IC351	TK111816403	IC, CXA1821M-CT
IC381	TK111887303	IC, LA6556-CT
IC401	TK112341303	IC, LC75421M-CT
IC501	TK111868300	IC, LA4743B
IC631	TK111893A00	IC, KIA7806API
IC701	TK119554100	IC, UPD178024GC-214
J250	TK165200006	RESISTOR, CHIP, 0OHM 1/10W
J251	TK165100006	RESISTOR, CHIP, 0OHM 1/8W
L301, L352	TK172024834	COIL, EL0305RA-220J-FT
L351	TK172024634	COIL, EL0305RA-100J-FT
L601	TK174301800	TRANSFORMER, TT-OL-5047-R2
L701	TK172024834	COIL, EL0305RA-220J-FT
L703	TK177103906	CORE, FCM1608K-301T03
P301	TK1981353AQ	POST-TKC-W26P-B1
P501	TK26563210	CONNECTOR

MAIN CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
P502	TK26563690	CONN YKC21-4800
P701	TK1981312AC	POST-TMD-L12X-B1
Q201, Q202	TK120020703	TRANSISTOR, DTA124EKAT
Q351	TK122081533	TRANSISTOR, 2SB815T-B6, B7
Q542, Q543	TK120020403	TRANSISTOR, DTC143TKAT
Q583, Q641	TK120020703	TRANSISTOR, DTA124EKAT
Q601, Q631	TK122132611	TRANSISTOR, 2SB1326T-Q, R
Q602, Q632	TK120015503	TRANSISTOR, DTC124EKAT
Q611	TK124185811	TRANSISTOR, 2SD1858T-Q, R
Q612, Q621	TK120014601	TRANSISTOR, KTC3199T-Y, GR
Q633	TK124146801	TRANSISTOR, 2SD1468ST-R, S
Q642	TK120015503	TRANSISTOR, DTC124EKAT
Q643	TK124237500	TRANSISTOR, 2SD2375-Q, P
Q661, Q702	TK12324121B	TRANSISTOR, 2SC2412KT-Q, R
Q701	TK124103013	TRANSISTOR, 2SD1030TX-T
R201, R301	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R202, R581	TK165310206	RESISTOR, CHIP, 1KOHM 1/16W
R203, R381	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R204	TK165310006	RESISTOR, CHIP, 10OHM 1/16W
R206	TK165356206	RESISTOR, CHIP, 5.6KOHM 1/16W
R207, R208	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R303, R311	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R304, R305	TK165327306	RESISTOR, CHIP, 27KOHM 1/16W
R306, R307	TK165339306	RESISTOR, CHIP, 39KOHM 1/16W
R308, R309	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R310	TK165313306	RESISTOR, CHIP, 13.0KOHM 1/16W
R312	TK165312406	RESISTOR, CHIP, 120KOHM 1/16W
R313, R314	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R315, R318	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R316, R701	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R317	TK165310506	RESISTOR, CHIP, 1MOHM 1/16W
R319, R320	TK165333206	RESISTOR, CHIP, 3.3KOHM 1/16W
R321, R322	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R323, R324	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R325, R326	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R327	TK165347106	RESISTOR, CHIP, 470OHM 1/16W
R351	TK165222006	RESISTOR, CHIP, 22OHM 1/10W
R352, R353	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R354, R355	TK165356406	RESISTOR, CHIP, 560KOHM 1/16W
R356	TK165391006	RESISTOR, CHIP, 91OHM 1/16W
R357, R418	TK165312306	RESISTOR, CHIP, 12KOHM 1/16W
R360	TK165324306	RESISTOR, CHIP, 24.0KOHM 1/16W
R361	TK165339306	RESISTOR, CHIP, 39KOHM 1/16W
R362	TK165318206	RESISTOR, CHIP, 1.8KOHM 1/16W
R382, R383	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R384, R385	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R386, R502	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R388, R389	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R390	TK165336306	RESISTOR, CHIP, 36.0KOHM 1/16W

MAIN CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
R395, R396	TK16532R206	RESISTOR, CHIP, 2.20OHM 1/16W
R419, R422	TK165339206	RESISTOR, CHIP, 3.9KOHM 1/16W
R421, R494	TK165312306	RESISTOR, CHIP, 12KOHM 1/16W
R485, R491	TK165347306	RESISTOR, CHIP, 47KOHM 1/16W
R495	TK165312306	RESISTOR, CHIP, 12KOHM 1/16W
R501, R504	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R503, R506	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R505, R508	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R507, R747	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R509, R622	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R543, R544	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R601, R631	TK165347306	RESISTOR, CHIP, 47KOHM 1/16W
R602, R603	TK161315204	RESISTOR, CARBON, 1.5KOHM 1/6W
R604, R632	TK161315204	RESISTOR, CARBON, 1.5KOHM 1/6W
R611	TK165247106	RESISTOR, CHIP, 470OHM 1/10W
R612	TK165333106	RESISTOR, CHIP, 330OHM 1/16W
R633, R634	TK161315204	RESISTOR, CARBON, 1.5KOHM 1/6W
R635	TK165368106	RESISTOR, CHIP, 680OHM 1/16W
R641	TK165268106	RESISTOR, CHIP, 680OHM 1/10W
R661	TK165212306	RESISTOR, CHIP, 12KOHM 1/10W
R662	TK165382206	RESISTOR, CHIP, 8.2KOHM 1/16W
R702	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R703, R705	TK165310206	RESISTOR, CHIP, 1KOHM 1/16W
R704	TK165322206	RESISTOR, CHIP, 2.2KOHM 1/16W
R706	TK165333206	RESISTOR, CHIP, 3.3KOHM 1/16W
R709, R739	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
R712, R720	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R713, R714	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R715, R716	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R717, R718	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R719, R724	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R721, R722	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R723, R725	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R726, R727	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R729, R730	TK165310206	RESISTOR, CHIP, 1KOHM 1/16W
R731	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R741, R742	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
R745	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
TH601	TK100015205	PTC-B59975-C120-A54
	TK182524211	PCB MAIN
	TK21177130	BKT (REG)
	TK21177441	BKT (IC)
	TK26F0002	FUSE 10A AUTO

MAIN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
AJ201	TK196510300	ANT JACK ASSY
C201, C317	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C202, C207	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C204	TK15715R00J	CAPACITOR, CHIP, 5PF 50V
C205, C206	TK157A1530J	CAPACITOR, CHIP, 0.015UF 25V
C208, C256	TK15713300J	CAPACITOR, CHIP, 33PF 50V
C209	TK15C2107HR	CE-RC3-100M10-T58
C211, C303	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C251, C253	TK15C3106HR	CE-RC3-10M16-T58
C252, C302	TK15712210J	CAPACITOR, CHIP, 220PF 50V
C254	TK15715610J	CAPACITOR, CHIP, 560PF 50V
C255, C314	TK15711500J	CAPACITOR, CHIP, 15PF 50V
C257, C305	TK157C1040J	CAPACITOR, CHIP, 0.1U
C304, C401	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C306, C405	TK15C6105CR	CE-RC2-1M50-T58
C307	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C308, C318	TK15712210J	CAPACITOR, CHIP, 220PF 50V
C309	TK157A5620J	CAPACITOR, CHIP, 5600PF 50V
C310	TK157A1520J	CAPACITOR, CHIP, 1500PF 50V
C311, C409	TK157A4730J	CAPACITOR, CHIP, 0.047UF 16V
C312, C313	TK157C1040J	CAPACITOR, CHIP, 0.1U
C315	TK15711500J	CAPACITOR, CHIP, 15PF 50V
C316, C322	TK157C1040J	CAPACITOR, CHIP, 0.1U
C319	TK15712210J	CAPACITOR, CHIP, 220PF 50V
C320, C323	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C321, C390	TK15C2107CR	CE-RC2-100M10-T58
C351	TK15C3106CR	CE-RC2-10M16-T58
C353	TK15713R00J	CAPACITOR, CHIP, 3PF 50V
C354	TK15714700J	CAPACITOR, CHIP, 47PF 50V
C355	TK157C1050J	CAPACITOR, CHIP, 1UF 10V
C381, C382	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C383, C384	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C385, C386	TK157A3330J	CAPACITOR, CHIP, 333 B
C387, C632	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C388	TK157A1530J	CAPACITOR, CHIP, 0.015UF 25V
C391, C392	TK157C1040J	CAPACITOR, CHIP, 0.1U
C393, C394	TK157C1040J	CAPACITOR, CHIP, 0.1U
C395, C396	TK157C1040J	CAPACITOR, CHIP, 0.1U
C403, C416	TK15C6225HR	CE-RC3-2.2M50-T58
C406, C412	TK15C6105HR	CE-RC3-1M50-T58
C407, C420	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C408, C421	TK157A1050J	CAPACITOR, CHIP, 1UF 10V
C410, C411	TK157A1540E	CAPACITOR, CHIP, 0.15UF 25V
C413, C426	TK15C3106HR	CE-RC3-10M16-T58
C414, C419	TK15C6105CR	CE-RC2-1M50-T58
C418, C710	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C422	TK157A4730J	CAPACITOR, CHIP, 0.047UF 16V
C423, C424	TK157A1540E	CAPACITOR, CHIP, 0.15UF 25V
C425, C506	TK15C6105CR	CE-RC2-1M50-T58

MAIN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
C501, C502	TK15C6474CR	CE-RC2-0.47M50-T58
C503, C504	TK15C6474CR	CE-RC2-0.47M50-T58
C505, C508	TK15C6105HR	CE-RC3-1M50-T58
C507	TK15C6105CR	CE-RC2-1M50-T58
C509	TK15C3476HR	CE-RC3-47M16-T58
C510	TK15C3226CR	CE-RC2-22M16-T58
C511	TK15C6224HR	CE-RC3-0.22M50-T58
C512, C641	TK157C1040J	CAPACITOR, CHIP, 0.1U
C513	TK15C3338K0	CE-RE3-3300M16
C515, L702	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
C581	TK15C6474CR	CE-RC2-0.47M50-T58
C611, C633	TK15C2107CR	CE-RC2-100M10-T58
C618, C703	TK15C2227HR	CE-RC3-220M10-T58
C631	TK15C3107CR	CE-RC2-100M16-T58
C634	TK15C3106HR	CE-RC3-10M16-T58
C704, C709	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C705, C706	TK157C1040J	CAPACITOR, CHIP, 0.1U
C707	TK15711200J	CAPACITOR, CHIP, 12PF 50V
C708	TK15711000J	CAPACITOR, CHIP, 10PF 50V
C711, C712	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C713, C717	TK157C1040J	CAPACITOR, CHIP, 0.1U
C714	TK157A4720J	CAPACITOR, CHIP, 4700PF 50V
C715	TK157A2240J	CAPACITOR, CHIP, 0.22UF 10V
D351, D661	TK131001901	DIODE, 1SS133T
D601	TK132014800	DIODE, 1N5401
D602	TK131001801	DIODE, 1SS145T
D611, D641	TK134014611	DIODE, ZENER, MTZJ9.1T-C
D621	TK134014511	DIODE, ZENER, MTZJ5.6T-C
D662	TK134018111	DIODE, ZENER, MTZJ8.2T-B
D706	TK141030510	LED, HL-BZ30105/1ID
D709, D710	TK134030601	DIODE, ZENER, BZX55-C6V2
D713, D714	TK198300101	JUMPER 5MM (INSERT)
D716	TK134014731	DIODE, ZENER, MTZJ10T-B
D721	TK134033603	DIODE, ZENER, UDZS6.8B
ET201	TK37314B0	BL ASSY RF33RN
F251	TK176419100	X'TAL, HQS-3H3-04332-16
F301	TK175309034	CERAMIC FILTER, FCR16.93M2GT3-FT
F701	TK176419700	X'TAL, HQS-3H-06300-14
IC251	TK112332303	IC, LC72723M-CT
IC301	TK112308400	IC, CXD2587Q
IC351	TK111816403	IC, CXA1821M-CT
IC381	TK111887303	IC, LA6556-CT
IC401	TK112341303	IC, LC75421M-CT
IC501	TK111868300	IC, LA4743B
IC631	TK111893A00	IC, KIA7806API
IC701	TK119556100	IC, UPD178078GF-XXX-3
J243	TK165200006	RESISTOR, CHIP, 0OHM 1/10W
L301, L701	TK172024834	COIL, EL0305RA-220J-FT
L351	TK172024634	COIL, EL0305RA-100J-FT

MAIN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
L352	TK198300101	JUMPER 5MM (INSERT)
L601	TK174301800	TRANSFORMER, TT-OL-5047-R2
P301	TK1981353AQ	POST-TKC-W26P-B1
P501	TK26563210	CONNECTOR
P502	TK26563690	CONN YKC21-4800
P701	TK1981312AC	POST-TMD-L12X-B1
Q201, Q202	TK120020703	TRANSISTOR, DTA124EKAT
Q351	TK122081533	TRANSISTOR, 2SB815T-B6, B7
Q542, Q543	TK120020403	TRANSISTOR, DTC143TKAT
Q583, Q641	TK120020703	TRANSISTOR, DTA124EKAT
Q601	TK122132621	TRANSISTOR, 2SB1326T-R
Q602, Q632	TK120015503	TRANSISTOR, DTC124EKAT
Q611	TK124185811	TRANSISTOR, 2SD1858T-Q, R
Q612, Q621	TK120014601	TRANSISTOR, KTC3199T-Y, GR
Q631	TK122132611	TRANSISTOR, 2SB1326T-Q, R
Q633	TK124146801	TRANSISTOR, 2SD1468ST-R, S
Q642	TK120015503	TRANSISTOR, DTC124EKAT
Q643	TK124237500	TRANSISTOR, 2SD2375-Q, P
Q661	TK12324121B	TRANSISTOR, 2SC2412KT-Q, R
Q701	TK126158103	TRANSISTOR, 2SK1581T
Q702, Q703	TK120027203	TRANSISTOR, RK7002
R201, R315	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R202, R767	TK165356106	RESISTOR, CHIP, 560OHM 1/16W
R203, R327	TK165347106	RESISTOR, CHIP, 470OHM 1/16W
R204	TK165310006	RESISTOR, CHIP, 10OHM 1/16W
R205	TK16524R706	RESISTOR, CHIP, 4.7OHM 1/10W
R206	TK165368206	RESISTOR, CHIP, 6.8KOHM 1/16W
R207	TK165382306	RESISTOR, CHIP, 82KOHM 1/16W
R208	TK1691734D9	RESISTOR, SEMI-FIXED, NVZ6TLT-204B-RT
R209	TK165327206	RESISTOR, CHIP, 2.7KOHM 1/16W
R251	TK165333006	RESISTOR, CHIP, 33OHM 1/16W
R301, R308	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R303, R311	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R304, R305	TK165327306	RESISTOR, CHIP, 27KOHM 1/16W
R306, R307	TK165339306	RESISTOR, CHIP, 39KOHM 1/16W
R309, R388	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R310	TK165313306	RESISTOR, CHIP, 13.0KOHM 1/16W
R312	TK165312406	RESISTOR, CHIP, 120KOHM 1/16W
R313, R314	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R316, R701	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R317	TK165310506	RESISTOR, CHIP, 1MOHM 1/16W
R318, R352	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R319, R320	TK165333206	RESISTOR, CHIP, 3.3KOHM 1/16W
R321, R322	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R323, R324	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R325, R326	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R351	TK165222006	RESISTOR, CHIP, 22OHM 1/10W
R353, R501	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R354, R355	TK165356406	RESISTOR, CHIP, 560KOHM 1/16W

MAIN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
R356	TK165391006	RESISTOR, CHIP, 91OHM 1/16W
R357, R418	TK165312306	RESISTOR, CHIP, 12KOHM 1/16W
R360	TK165324306	RESISTOR, CHIP, 24.0KOHM 1/16W
R361	TK165339306	RESISTOR, CHIP, 39KOHM 1/16W
R362	TK165318206	RESISTOR, CHIP, 1.8KOHM 1/16W
R381, R382	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R383, R384	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R385, R386	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R389	TK165322306	RESISTOR, CHIP, 22KOHM 1/16W
R390	TK165336306	RESISTOR, CHIP, 360KOHM 1/16W
R393, R394	TK16532R206	RESISTOR, CHIP, 220OHM 1/16W
R395, R396	TK16532R206	RESISTOR, CHIP, 220OHM 1/16W
R397	TK16532R206	RESISTOR, CHIP, 220OHM 1/16W
R419, R422	TK165339206	RESISTOR, CHIP, 3.9KOHM 1/16W
R421	TK165312306	RESISTOR, CHIP, 12KOHM 1/16W
R502, R503	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R504, R505	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R506, R507	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R508, R509	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R543, R544	TK165310206	RESISTOR, CHIP, 1KOHM 1/16W
R547, R548	TK165247106	RESISTOR, CHIP, 470OHM 1/10W
R581, R728	TK165310206	RESISTOR, CHIP, 1KOHM 1/16W
R582, R744	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
R601, R631	TK165347306	RESISTOR, CHIP, 47KOHM 1/16W
R602, R603	TK161318204	RESISTOR, CARBON, 1.8KOHM 1/6W
R604, R633	TK161315204	RESISTOR, CARBON, 1.5KOHM 1/6W
R611	TK165247106	RESISTOR, CHIP, 470OHM 1/10W
R612, R724	TK165333106	RESISTOR, CHIP, 330OHM 1/16W
R622, R712	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R634	TK161315204	RESISTOR, CARBON, 1.5KOHM 1/6W
R635	TK165368106	RESISTOR, CHIP, 680OHM 1/16W
R641	TK165268106	RESISTOR, CHIP, 680OHM 1/10W
R661	TK165210306	RESISTOR, CHIP, 10KOHM 1/10W
R662	TK165382206	RESISTOR, CHIP, 8.2KOHM 1/16W
R700, R703	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R704, R705	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R706, R707	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R708, R709	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R710, R762	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R713, R714	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R715, R719	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R716, R717	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R718	TK165368306	RESISTOR, CHIP, 68KOHM 1/16W
R721, R722	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R723, R730	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R725, R726	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R727	TK165333406	RESISTOR, CHIP, 330KOHM 1/16W
R732, R733	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R734, R735	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W

MAIN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
R736, R737	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R738, R746	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R741, R742	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R745	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
R752, R766	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R761	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R763	TK165333206	RESISTOR, CHIP, 3.3KOHM 1/16W
R764, R765	TK161347004	RESISTOR, CARBON, 47OHM 1/6W
R768	TK165222106	RESISTOR, CHIP, 220OHM 1/10W
R797	TK165333106	RESISTOR, CHIP, 330OHM 1/16W
TH601	TK100015205	PTC-B59975-C120#VALUE!
	TK182524310	PCB MAIN
	TK21177130	BKT (REG)
	TK21177441	BKT (IC)
	TK26F0002	FUSE 10A AUTO

DISPLAY CIRCUIT BOARD FOR FXD-780GD/SS/BK.SS, FXD-780RDS/XE

○ : FXD-780GD △ : FXD-780RDS

Ref.No.	PartsNo.	Description
C901	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C902	TK157C1040J	CAPACITOR, CHIP, 0.1U
○D901	TK134028703	DIODE, ZENER, HZM6.2ZFA
△D901	TK134033503	DIODE, ZENER, FTZ6.8E
D902	TK134030123	DIODE, ZENER, BZX84-b5V1
D911, D912	TK141029913	LED, MG02-1206LGC-DE
D913, D914	TK141029913	LED, MG02-1206LGC-DE
D915, D916	TK141029913	LED, MG02-1206LGC-DE
D917, D918	TK141029913	LED, MG02-1206LGC-DE
D919	TK141030013	LED, M02-0805EC-CD
D920, D921	TK141029913	LED, MG02-1206LGC-DE
D922, D923	TK141029913	LED, MG02-1206LGC-DE
D924, D925	TK141029913	LED, MG02-1206LGC-DE
D926, D927	TK141029913	LED, MG02-1206LGC-DE
D928, D929	TK141029913	LED, MG02-1206LGC-DE
D930, D931	TK141029913	LED, MG02-1206LGC-DE
D932, D933	TK141027400	LED-NSPW300BS
D934	TK134033703	DIODE, ZENER, UDZS12B
○H901	TK144030700	LCD, 307
△H901	TK144030800	LCD, 308
IC901	TK112325300	IC, LC75823W
P901	TK1981313AC	POST-TMD-L12P-A2
R901, R902	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R903, R905	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R904, R955	TK165347306	RESISTOR, CHIP, 47KOHM 1/16W
○R906	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R907	TK165210206	RESISTOR, CHIP, 1KOHM 1/10W
R908, R910	TK165233106	RESISTOR, CHIP, 330OHM 1/10W
R912	TK165233106	RESISTOR, CHIP, 330OHM 1/10W
R914, R916	TK165218106	RESISTOR, CHIP, 180OHM 1/10W
R918, R920	TK165218106	RESISTOR, CHIP, 180OHM 1/10W
R922	TK165218106	RESISTOR, CHIP, 180OHM 1/10W
R926	TK165212106	RESISTOR, CHIP, 120OHM 1/10W
R941, R948	TK165212206	RESISTOR, CHIP, 1.2KOHM 1/10W
R942, R949	TK165312206	RESISTOR, CHIP, 1.2KOHM 1/16W
R943, R950	TK165318206	RESISTOR, CHIP, 1.8KOHM 1/16W
R944, R951	TK165327206	RESISTOR, CHIP, 2.7KOHM 1/16W
R945, R952	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R946, R953	TK165382206	RESISTOR, CHIP, 8.2KOHM 1/16W
R947, R954	TK165318306	RESISTOR, CHIP, 18KOHM 1/16W
SW901	TK23116810	VOLUME (ENCODER)
SW902, SW904	TK23A1127	SWITCH (SKQCAC-260G)
SW903, SW910	TK23A11710	SWITCH SKQNAC-RT
SW905, SW906	TK23A1127	SWITCH (SKQCAC-260G)
SW907, SW908	TK23A11720	SWITCH SKQMAJ-CT
SW909, SW911	TK23A1127	SWITCH (SKQCAC-260G)
SW912, SW913	TK23A1127	SWITCH (SKQCAC-260G)
SW914, SW915	TK23A11710	SWITCH SKQNAC-RT
SW916	TK23A11710	SWITCH SKQNAC-RT

DISPLAY CIRCUIT BOARD FOR FXD-780GD/SS/BK.SS, FXD-780RDS/XE

○ : FXD-780GD　　△ : FXD-780RDS

Ref.No.	PartsNo.	Description
SW917, SW918	TK23A1127	SWITCH (SKQCAC-260G)
○	TK182524221	PCB DISP
△	TK182524320	PCB DISP
○	TK21177300	BKT (LCD)
△	TK21177301	BKT (LCD)
	TK22420551	HOLDER (LED) E-1.5
	TK22421210	HOLDER ASSY (LCD)
	TK25380620	INTER CONNECTOR E-1.5
○	TK28061570	INSULATOR 3.5X14
	TK28073670	COLOR SHEET (LCD)

RF33SS CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
C100, C103	TK15712700J	CAPACITOR, CHIP, 27PF 50V
C101, C171	TK15711200J	CAPACITOR, CHIP, 12PF 50V
C102, C104	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C105	TK15775R00J	CAPACITOR, CHIP, 5P
C106	TK15711500J	CAPACITOR, CHIP, 15PF 50V
C107, C122	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C108, C127	TK15C3106CR	CE-RC2-10M16-T58
C110, C116	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C111	TK15712R00J	CAPACITOR, CHIP, 2PF 50V
C112, C113	TK15774R00J	CAPACITOR, CHIP, 4PF 50V
C114	TK15711800J	CAPACITOR, CHIP, 18PF 50V
C115	TK15771200J	CAPACITOR, CHIP, 12P
C118	TK157A1520J	CAPACITOR, CHIP, 1500PF 50V
C119	TK172151546	COIL, LK1608-4R7K-CT
C120	TK15716810E	CAPACITOR, CHIP, 680PF 50V
C121, C154	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C123	TK15C2107HR	CE-RC3-100M10-T58
C124, C129	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C126, C140	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C128, C182	TK157A1040J	CAPACITOR, CHIP, 0.1UF 16V
C131	TK15712200J	CAPACITOR, CHIP, 22PF 50V
C132	TK157A1220J	CAPACITOR, CHIP, 1200PF 50V
C133, C150	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C134	TK15C6335CR	CE-RC2-3.3M50-T58
C135	TK15C6225CR	CE-RC2-2.2M50-T58
C136, C148	TK157C1050E	CAPACITOR, CHIP, 1UF 16V
C137	TK157A4730J	CAPACITOR, CHIP, 0.047UF 16V
C138	TK157A3920J	CAPACITOR, CHIP, 3900PF 50V
C141	TK157C1040J	CAPACITOR, CHIP, 0.1U
C143	TK157K1050E	CAPACITOR, CHIP, 1UF 10V
C144, C152	TK157C2240E	CAPACITOR, CHIP, 0.22UF 25V
C145, C151	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C146	TK157A6820J	CAPACITOR, CHIP, 6800PF 50V
C149	TK15C6105CR	CE-RC2-1M50-T58
C153, C165	TK157C1050E	CAPACITOR, CHIP, 1UF 16V
C155, C156	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C157	TK157A1230J	CAPACITOR, CHIP, 0.012U
C158	TK157C4740E	CAPACITOR, CHIP, 0.47UF, 16V
C159, C162	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C161, C175	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C163	TK15773300E	CAPACITOR, CHIP, 33PF 50V
C164, C170	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C166	TK15774R00J	CAPACITOR, CHIP, 4PF 50V
C167	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C168	TK157C1050E	CAPACITOR, CHIP, 1UF 16V
C172	TK15711200J	CAPACITOR, CHIP, 12PF 50V
C173, C177	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C181, J100	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
C183, C187	TK157A2220J	CAPACITOR, CHIP, 2200PF 50V

RF33SS CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
C186, C189	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C190	TK15711000J	CAPACITOR, CHIP, 10PF 50V
D101	TK13500390B	DIODE, 1SV234T-TB
D102, D103	TK135006803	DIODE, SVC220T
D104, D108	TK135006803	DIODE, SVC220T
D105, D107	TK13200710B	DIODE, DA204KT146
D109	TK131002903	DIODE, 1SS355T
F101	TK175206130	CERAMIC FILTER, FFE-1070-MJ10FAL
F102	TK1751081J0	CERAMIC FILTER, CN450H4
F103, F104	TK175205430	CERAMIC FILTER, FFE-1070-MS10SCL
F105	TK175308810	CERAMIC FILTER, CMU2-912A01
F111	TK176419005	X'TAL, HQST-3H-10260-20
IC101	TK111847300	IC, LA1781M
L100	TK170025400	COIL, 1R7-7SR
L101	TK170024700	COIL, 2R0-4R5TR
L102	TK170024900	COIL, 1R9-6R5SR-0.7
L103	TK170025200	COIL, 1R2-6R5SL
L105	TK172025934	COIL, EL0305RA-102J-FT
L106	TK172025234	COIL, EL0305RA-101J-FT
L107	TK1710583E0	COIL, FM-IFT
L108	TK1710569E0	COIL, AM-IFT1
L109	TK172024234	COIL, EL0305RA-2R2J-FT
L110	TK1710586E0	COIL, FM-DET
L111	TK1710584E0	COIL, AM-IFT2
L112	TK172023634	COIL, EL0305RA-R22K-FT
L120	TK1710582E0	COIL, AM-ANT
L122	TK172024934	COIL, EL0305RA-330J-FT
P100	TK1981327D7	POST-6029B-1-07Z003T
P101	TK1981327DA	POST-6029B-1-10Z003T
Q100	TK128026313	TRANSISTOR, 3SK263T-5
Q105	TK12340812B	TRANSISTOR, 2SC4081T106-Q, R
Q106	TK120016003	TRANSISTOR, DTC114TKAT
Q111	TK120015713	TRANSISTOR, FC18T-F, G
R101, R120	TK165310106	RESISTOR, CHIP, 100OHM 1/16W
R102, R103	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R104, R118	TK165382306	RESISTOR, CHIP, 82KOHM 1/16W
R105	TK165327306	RESISTOR, CHIP, 27KOHM 1/16W
R106, R119	TK165322406	RESISTOR, CHIP, 220KOHM 1/16W
R107, R135	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R108, R147	TK165356006	RESISTOR, CHIP, 56OHM 1/16W
R109, R110	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R111, R116	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R112, R126	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R115	TK165347106	RESISTOR, CHIP, 470OHM 1/16W
R117	TK165312206	RESISTOR, CHIP, 1.2KOHM 1/16W
R122, R142	TK165310106	RESISTOR, CHIP, 100OHM 1/16W
R124, R137	TK169162010	RESISTOR, SEMI-FIXED, KVSF637A-223B
R125	TK165333106	RESISTOR, CHIP, 330OHM 1/16W
R127	TK165322406	RESISTOR, CHIP, 220KOHM 1/16W

RF33SS CIRCUIT BOARD FOR FXD-780GD/SS, BK.SS

Ref.No.	PartsNo.	Description
R128	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R129	TK169162210	RESISTOR, SEMI-FIXED, KVSF637A-473B
R130, R131	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R132	TK165382106	RESISTOR, CHIP, 820OHM 1/16W
R134	TK165318206	RESISTOR, CHIP, 1.8KOHM 1/16W
R136	TK165356206	RESISTOR, CHIP, 5.6KOHM 1/16W
R138	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R139	TK165368306	RESISTOR, CHIP, 68KOHM 1/16W
R140	TK165310506	RESISTOR, CHIP, 1MOHM 1/16W
R141	TK165347306	RESISTOR, CHIP, 47KOHM 1/16W
R146	TK165310106	RESISTOR, CHIP, 100OHM 1/16W
R155	TK165347006	RESISTOR, CHIP, 47OHM 1/16W
R156	TK169162010	RESISTOR, SEMI-FIXED, KVSF637A-223B
R161, R171	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
	TK182522710	PCB RF33
	TK21235240	SHIELD PLATE

RF33RN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
C101, C171	TK15711200J	CAPACITOR, CHIP, 12PF 50V
C100, C103	TK15712700J	CAPACITOR, CHIP, 27PF 50V
C102, C104	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C105	TK15775R00J	CAPACITOR, CHIP, 5P
C106	TK15711500J	CAPACITOR, CHIP, 15PF 50V
C110, C116	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C107, C122	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C108, C127	TK15C3106CR	CE-RC2-10M16-T58
C111	TK15712R00J	CAPACITOR, CHIP, 2PF 50V
C112, C113	TK15774R00J	CAPACITOR, CHIP, 4PF 50V
C114	TK15711800J	CAPACITOR, CHIP, 18PF 50V
C115	TK15771200J	CAPACITOR, CHIP, 12P
C118	TK157A1520J	CAPACITOR, CHIP, 1500PF 50V
C119	TK172151546	COIL, LK1608-4R7K-CT
C120	TK15716810E	CAPACITOR, CHIP, 680PF 50V
C121, C154	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C123	TK15C2107CR	CE-RC2-100M10-T58
C124, C129	TK15711010J	CAPACITOR, CHIP, 100PF 50V
C125, C136	TK157C1050E	CAPACITOR, CHIP, 1UF 16V
C126, C132	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C128, C143	TK157A1040J	CAPACITOR, CHIP, 0.1UF 16V
C131	TK15713300J	CAPACITOR, CHIP, 33PF 50V
C133, C150	TK157A2230J	CAPACITOR, CHIP, 0.022UF 25V
C134	TK15C6335CR	CE-RC2-3.3M50-T58
C135	TK15C6225CR	CE-RC2-2.2M50-T58
C137	TK157A4730J	CAPACITOR, CHIP, 0.047UF 16V
C138	TK157A3920J	CAPACITOR, CHIP, 3900PF 50V
C140, C183	TK157A2220J	CAPACITOR, CHIP, 2200PF 50V
C141	TK157C1040J	CAPACITOR, CHIP, 0.1U
C144, C152	TK157C2240E	CAPACITOR, CHIP, 0.22UF 25V
C145, C151	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C146	TK157A6820J	CAPACITOR, CHIP, 6800PF 50V
C147, C148	TK157C1050E	CAPACITOR, CHIP, 1UF 16V
C149	TK15C6105CR	CE-RC2-1M50-T58
C153, C165	TK157C1050E	CAPACITOR, CHIP, 1UF 16V
C155, C156	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C157	TK157A1230J	CAPACITOR, CHIP, 0.012U
C158	TK157C4740E	CAPACITOR, CHIP, 0.47UF, 16V
C159, C162	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C161, C175	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C163	TK15773300E	CAPACITOR, CHIP, 33PF 50V
C164, C170	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C166	TK15774R00J	CAPACITOR, CHIP, 4PF 50V
C167, C182	TK157A1040J	CAPACITOR, CHIP, 0.1UF 16V
C172	TK15711200J	CAPACITOR, CHIP, 12PF 50V
C173, C177	TK157A1030J	CAPACITOR, CHIP, 0.01UF 50V
C181, C184	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C186, C189	TK157A1020J	CAPACITOR, CHIP, 1000PF 50V
C187	TK157A2220J	CAPACITOR, CHIP, 2200PF 50V

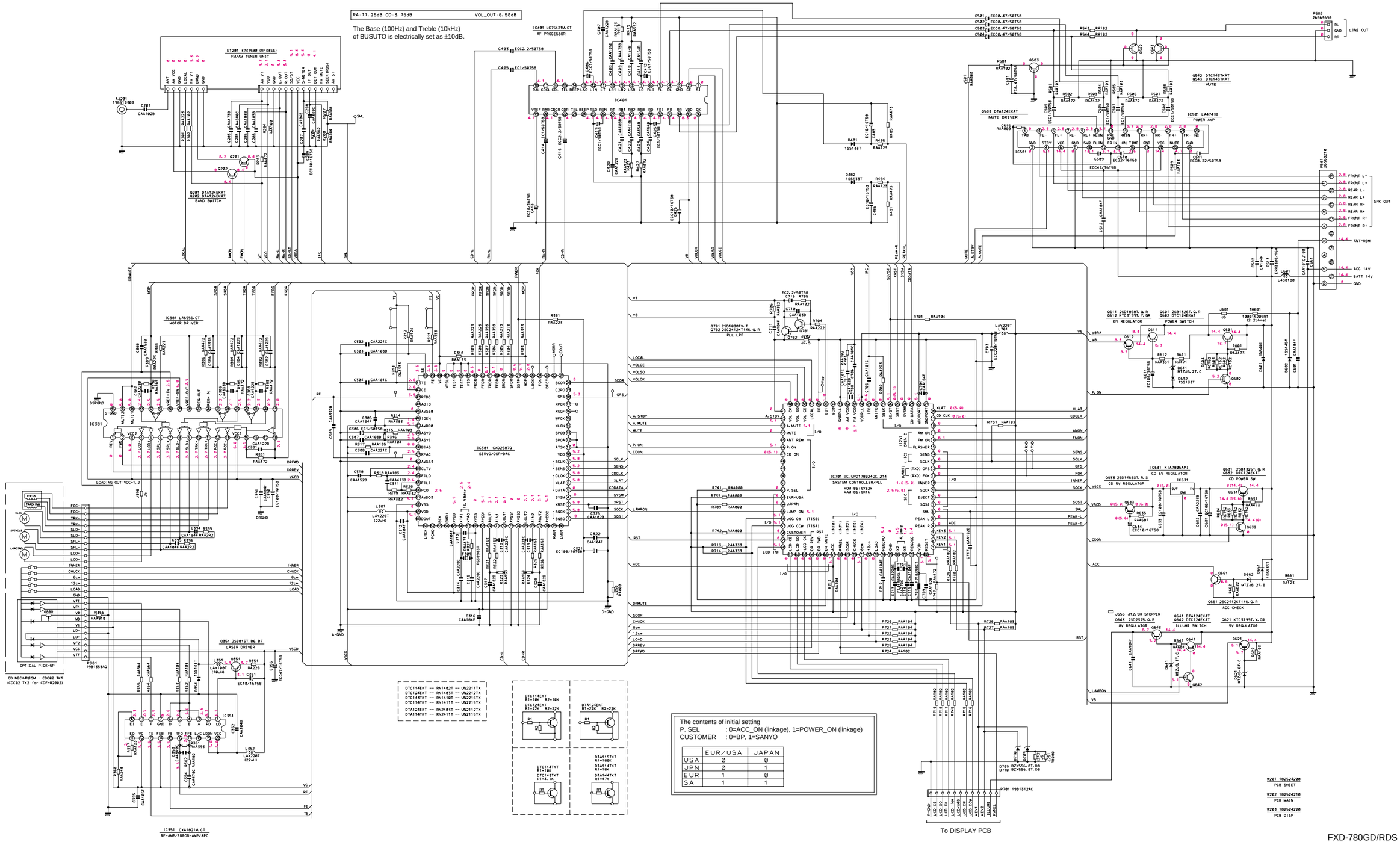
RF33RN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
C190	TK157l1000J	CAPACITOR, CHIP, 10PF 50V
D101	TK13500390B	DIODE, 1SV234T-TB
D102, D103	TK135006803	DIODE, SVC220T
D104, D108	TK135006803	DIODE, SVC220T
D105, D107	TK13200710B	DIODE, DA204KT146
D109, D110	TK131002903	DIODE, 1SS355T
F101	TK175206130	CERAMIC FILTER, FFE-1070-MJ10FAL
F102	TK1751058D0	CERAMIC FILTER, KBF450P-6AS
F103, F104	TK175205130	CERAMIC FILTER, FFE-1070-MS10SGL
F105	TK175308810	CERAMIC FILTER, CMU2-912A01
F111	TK176419005	X'TAL, HQST-3H-10260-20
IC101	TK111847300	IC, LA1781M
L100	TK170025400	COIL, 1R7-7SR
L101	TK170024700	COIL, 2R0-4R5TR
L102	TK170024900	COIL, 1R9-6R5SR-0.7
L103	TK170025200	COIL, 1R2-6R5SL
L105	TK172025934	COIL, EL0305RA-102J-FT
L106	TK172025234	COIL, EL0305RA-101J-FT
L107	TK1710583E0	COIL, FM-IFT
L108	TK1710569E0	COIL, AM-IFT1
L109	TK172024234	COIL, EL0305RA-2R2J-FT
L110	TK1710586E0	COIL, FM-DET
L111	TK1710584E0	COIL, AM-IFT2
L112	TK172023634	COIL, EL0305RA-R22K-FT
L120	TK1710582E0	COIL, AM-ANT
L122	TK172024934	COIL, EL0305RA-330J-FT
P100	TK1981327D7	POST-6029B-1-07Z003T
P101	TK1981327DC	POST-6029B-1-12Z003T
Q100	TK128026313	TRANSISTOR, 3SK263T-5
Q105	TK12340812B	TRANSISTOR, 2SC4081T106-Q, R
Q106, Q110	TK120016003	TRANSISTOR, DTC114TKAT
Q111	TK120015713	TRANSISTOR, FC18T-F, G
Q115	TK120020603	TRANSISTOR, DTA114EKAT
Q116	TK126030313	TRANSISTOR, 2SK303T-3, 4
Q117	TK120016003	TRANSISTOR, DTC114TKAT
R101, R120	TK165310106	RESISTOR, CHIP, 100OHM 1/16W
R102, R103	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R104, R118	TK165382306	RESISTOR, CHIP, 82KOHM 1/16W
R105	TK165327306	RESISTOR, CHIP, 27KOHM 1/16W
R106, R119	TK165322406	RESISTOR, CHIP, 220KOHM 1/16W
R107, R135	TK165333306	RESISTOR, CHIP, 33KOHM 1/16W
R108, R147	TK165356006	RESISTOR, CHIP, 56OHM 1/16W
R109, R110	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R111, R116	TK165310406	RESISTOR, CHIP, 100KOHM 1/16W
R112, R126	TK165310306	RESISTOR, CHIP, 10KOHM 1/16W
R115	TK165347106	RESISTOR, CHIP, 470OHM 1/16W
R117	TK165310206	RESISTOR, CHIP, 1KOHM 1/16W
R122, R142	TK165310106	RESISTOR, CHIP, 100OHM 1/16W
R124, R137	TK169162010	RESISTOR, SEMI-FIXED, KVSF637A-223B

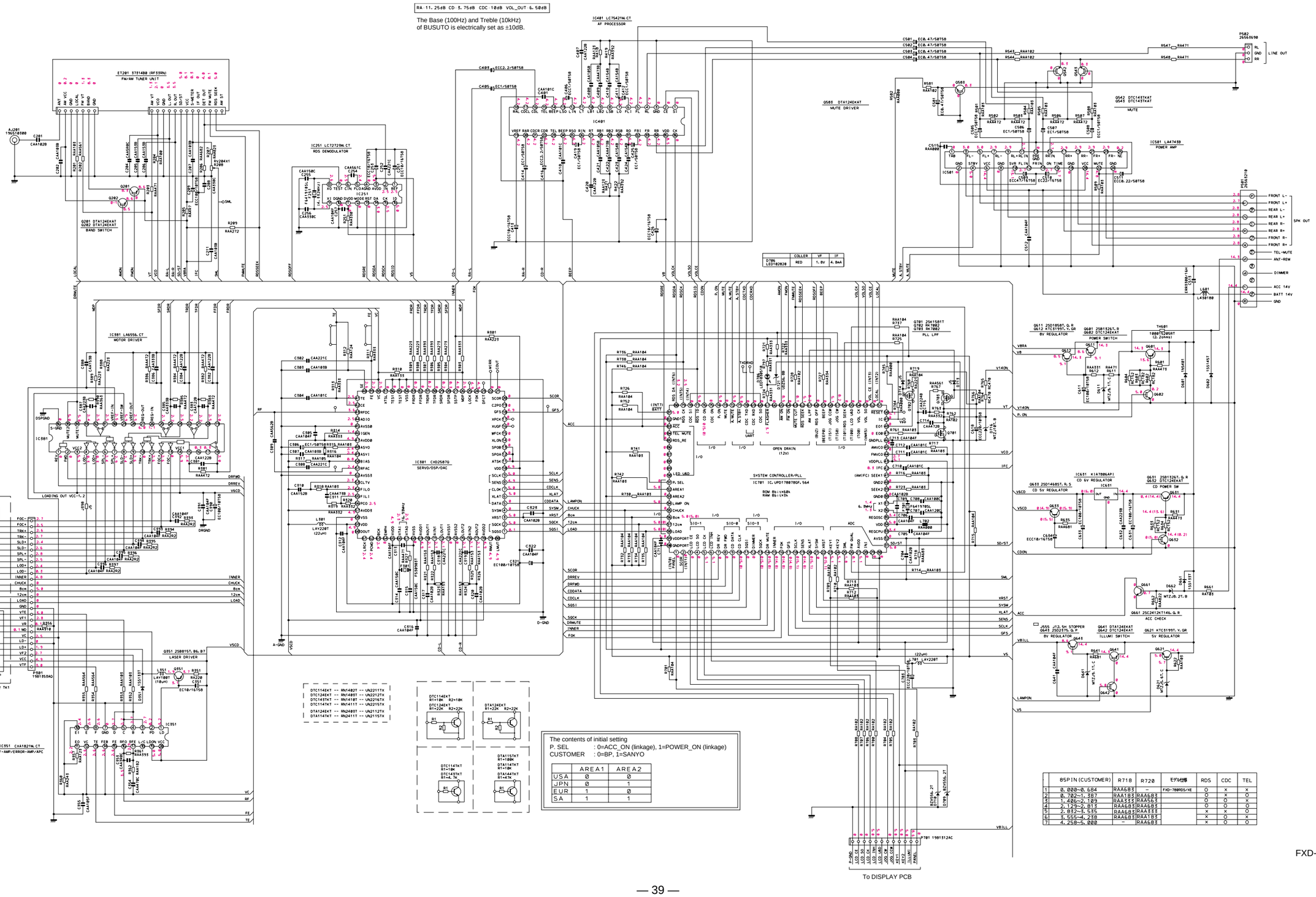
RF33RN CIRCUIT BOARD FOR FXD-780RDS/XE

Ref.No.	PartsNo.	Description
R125	TK165333106	RESISTOR, CHIP, 330OHM 1/16W
R127	TK165322406	RESISTOR, CHIP, 220KOHM 1/16W
R128	TK165318306	RESISTOR, CHIP, 18KOHM 1/16W
R129	TK169162210	RESISTOR, SEMI-FIXED, KVSF637A-473B
R130, R131	TK165315306	RESISTOR, CHIP, 15KOHM 1/16W
R132	TK165382106	RESISTOR, CHIP, 820OHM 1/16W
R134	TK165318206	RESISTOR, CHIP, 1.8KOHM 1/16W
R136	TK165356206	RESISTOR, CHIP, 5.6KOHM 1/16W
R138	TK165347206	RESISTOR, CHIP, 4.7KOHM 1/16W
R139	TK165368306	RESISTOR, CHIP, 68KOHM 1/16W
R140	TK165310506	RESISTOR, CHIP, 1MOHM 1/16W
R141	TK165347306	RESISTOR, CHIP, 47KOHM 1/16W
R146	TK165310106	RESISTOR, CHIP, 100OHM 1/16W
R155	TK165318106	RESISTOR, CHIP, 180OHM 1/16W
R156	TK169162010	RESISTOR, SEMI-FIXED, KVSF637A-223B
R161, R171	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
R191	TK165300006	RESISTOR, CHIP, 0OHM 1/16W
	TK182522710	PCB RF33
	TK21235240	SHIELD PLATE

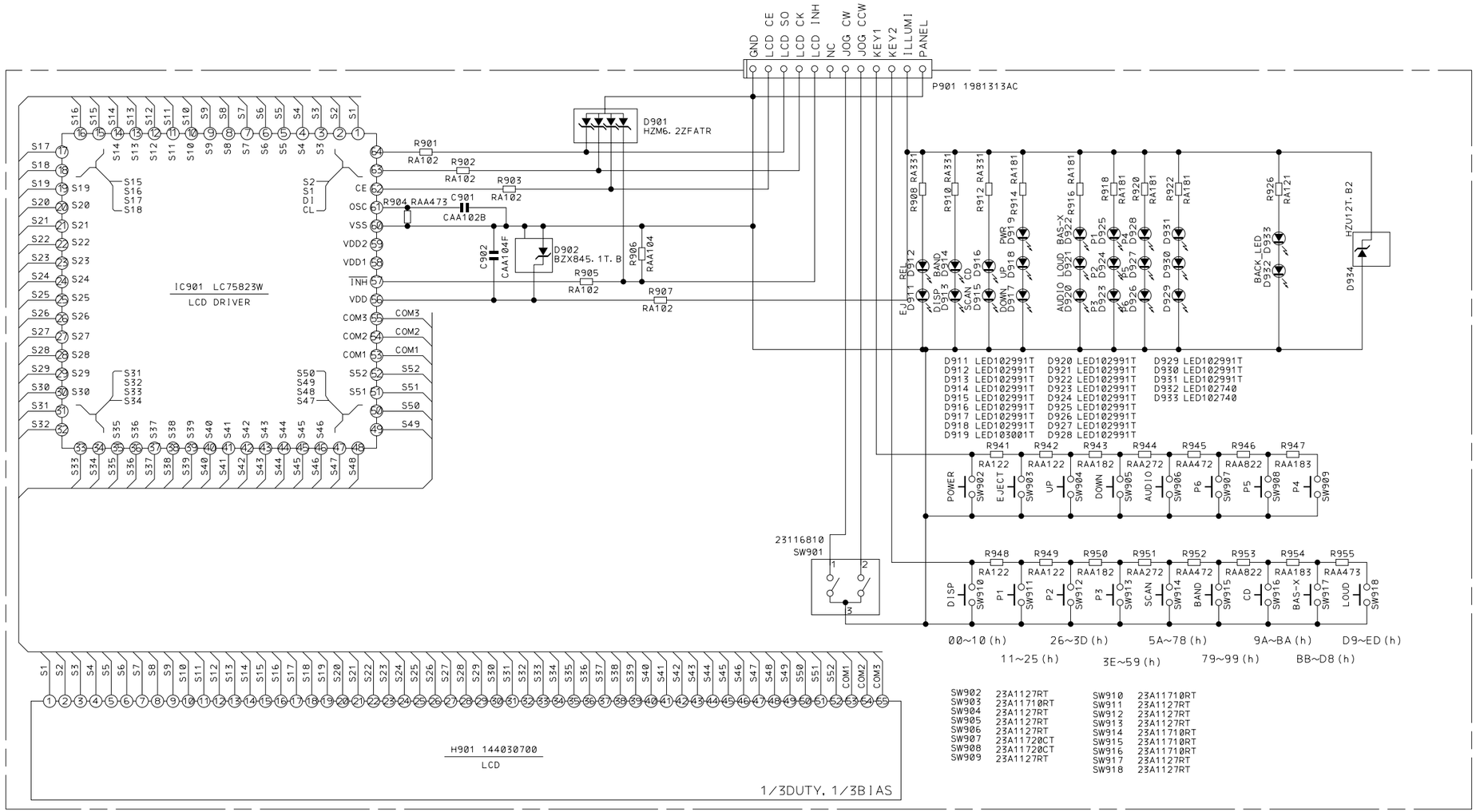
SCHEMATIC DIAGRAM - MAIN for FXD-780GD/SS, BK.SS


RA 11.25dB CD 3.75dB
VOL_OUT 6.50dB
The Base (100Hz) and Treble (10kHz) of BUSUTO is electrically set as ±10dB.
IC401 LC75421M-CT AF PROCESSOR
IC401 CXD2587Q SERVO/DSP/DAC
IC701 IC UPD17B024GC-214 SYSTEM CONTROLLER/PLL
IC501 LA4745B POWER AMP
IC551 CXA1821M-CT RF-AMP/ERROR-AMP/APC
IC651 KIA7808API CD 5V REGULATOR
IC901 LA6556-CT MOTOR DRIVER
ET201 5781500 (RF3555) FM/AM TUNER UNIT
Q201 DTA124EKAT Q202 DTA124EKAT BAND SWITCH
Q501 DTA124EKAT MUTE DRIVER
Q503 2SD1858T-B6, B7 LASER DRIVER
Q701 2SD1858TX, T Q702 2SC2412KT146, Q, R PLL LPF
Q611 2SD1858T, Q, R Q612 KTC3199T-Y, GR 8V REGULATOR
Q601 2SB1326T, Q, R Q602 DTC124EKAT POWER SWITCH
Q641 DTA124EKAT Q642 DTC124EKAT ILLUMI SWITCH
Q621 KTC3199T-Y, GR 5V REGULATOR
Q651 2SB1326T, Q, R Q652 DTC124EKAT CD POWER SW
Q655 2SD1468S-T-R, S 5V REGULATOR
Q661 2SC2412KT146, Q, R ACC CHECK
Q542 DTC143TKAT Q543 DTC143TKAT MUTE
J555 J12.5H STOPPER
J601 J5
J602 J5
P201 1981595AQ OPTICAL PICK-UP
P701 1981512AC To DISPLAY PCB
P581 26565210
P582 26565698
LINE OUT
SPK OUT
FRONT L-
FRONT L+
REAR L-
REAR L+
REAR R-
REAR R+
FRONT R-
FRONT R+
ANT-REM
ACC 14V
BATT 14V
GND
CD MECHANISM CDC82 TK1 (CDC82 TK2 for CDF-RQ882)
DTC114EKT -- RN1402T -- UN2211TX
DTC124EKT -- RN1403T -- UN2212TX
DTC143TKT -- RN1410T -- UN2216TX
DTC114TKT -- RN1411T -- UN2215TX
DTA124EKT -- RN2403T -- UN2112TX
DTA114TKT -- RN2411T -- UN2115TX
DTC114EKT R1=10K R2=10K
DTC124EKT R1=22K R2=22K
DTC114TKT R1=10K DTC143TKT R1=4.7K
DTA115TKT R1=100K DTA114TKT R1=10K DTA144TKT R1=47K
The contents of initial setting
P. SEL : 0=ACC_ON (linkage), 1=POWER_ON (linkage)
CUSTOMER : 0=BP, 1=SANYO
EUR/USA JAPAN
USA 0 0
JPN 0 1
EUR 1 0
SA 1 1
W201 182524200 PCB SHEET
W202 182524210 PCB MAIN
W203 182524220 PCB DISP

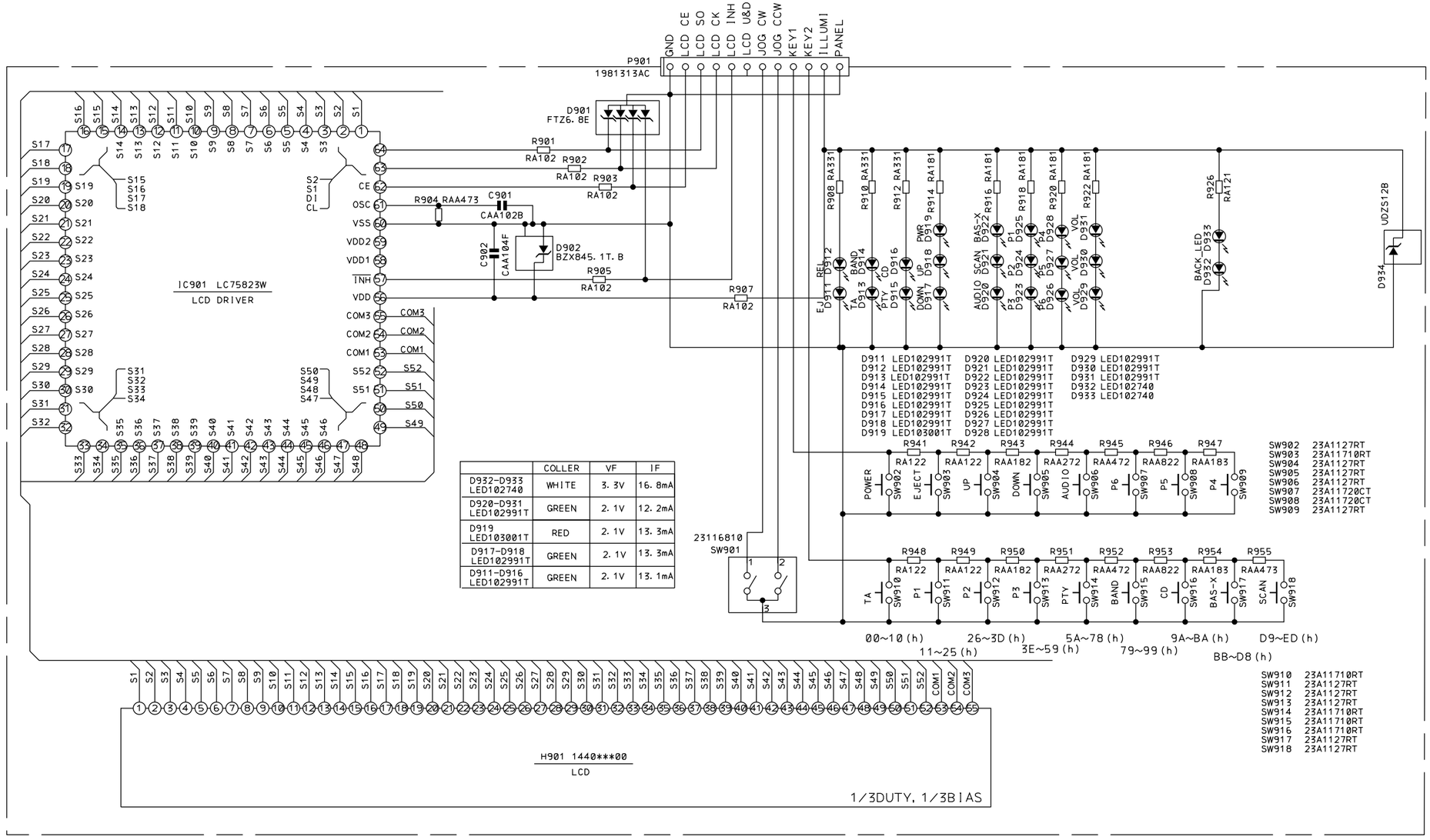
SCHEMATIC DIAGRAM - MAIN for FXD-780RDS/XE



SCHEMATIC DIAGRAM - DISPLAY for FXD-780GD/SS, BK.SS

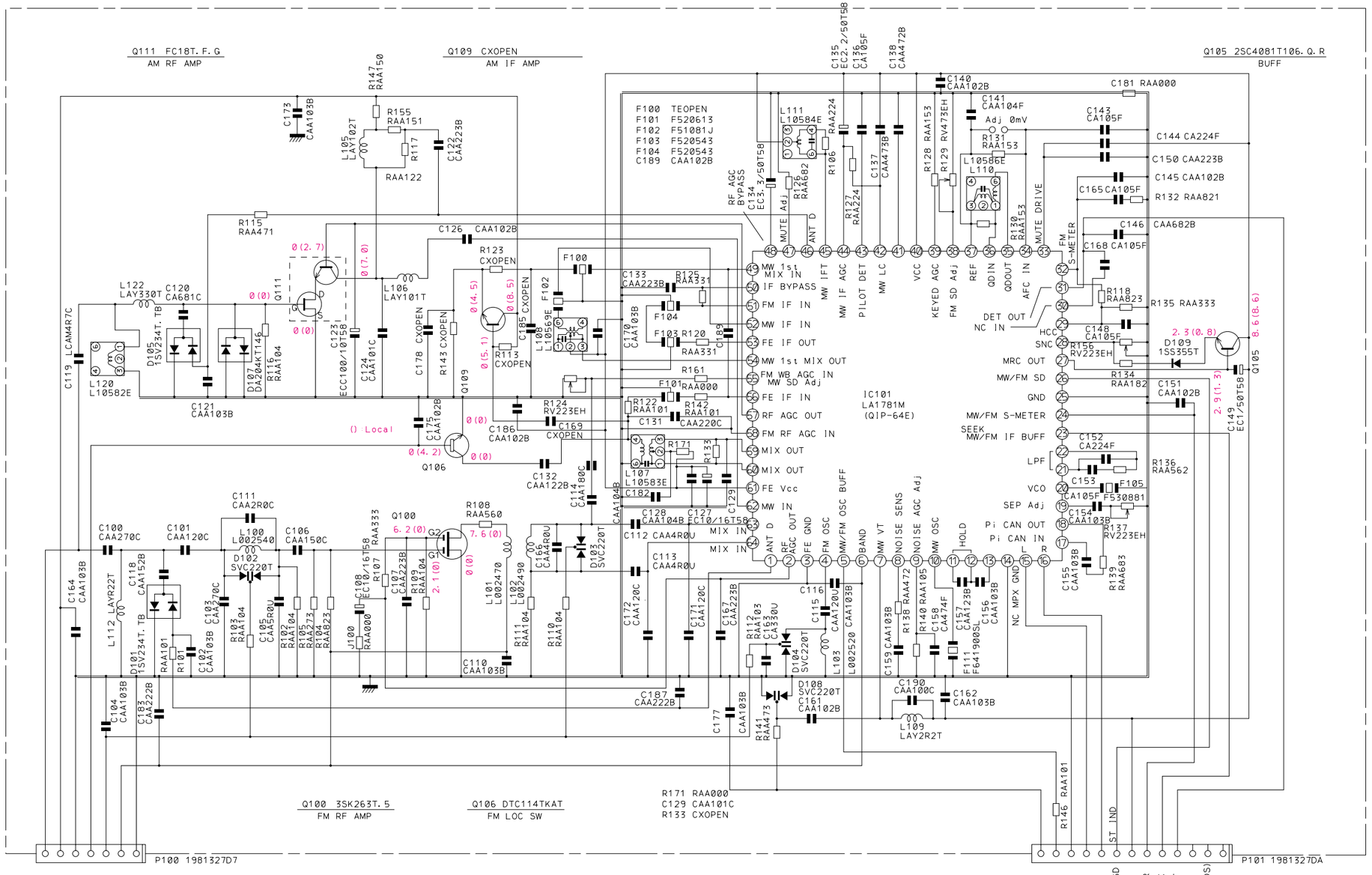


SCHEMATIC DIAGRAM - DISPLAY for FXD-780RDS/XE



	COLLER	VF	IF
D932-D933 LED102740	WHITE	3.3V	16.8mA
D920-D931 LED102991T	GREEN	2.1V	12.2mA
D919 LED103001T	RED	2.1V	13.3mA
D917-D918 LED102991T	GREEN	2.1V	13.3mA
D911-D916 LED102991T	GREEN	2.1V	13.1mA

SCHEMATIC DIAGRAM - RF33SS for FXD-780GD/SS, BK.SS



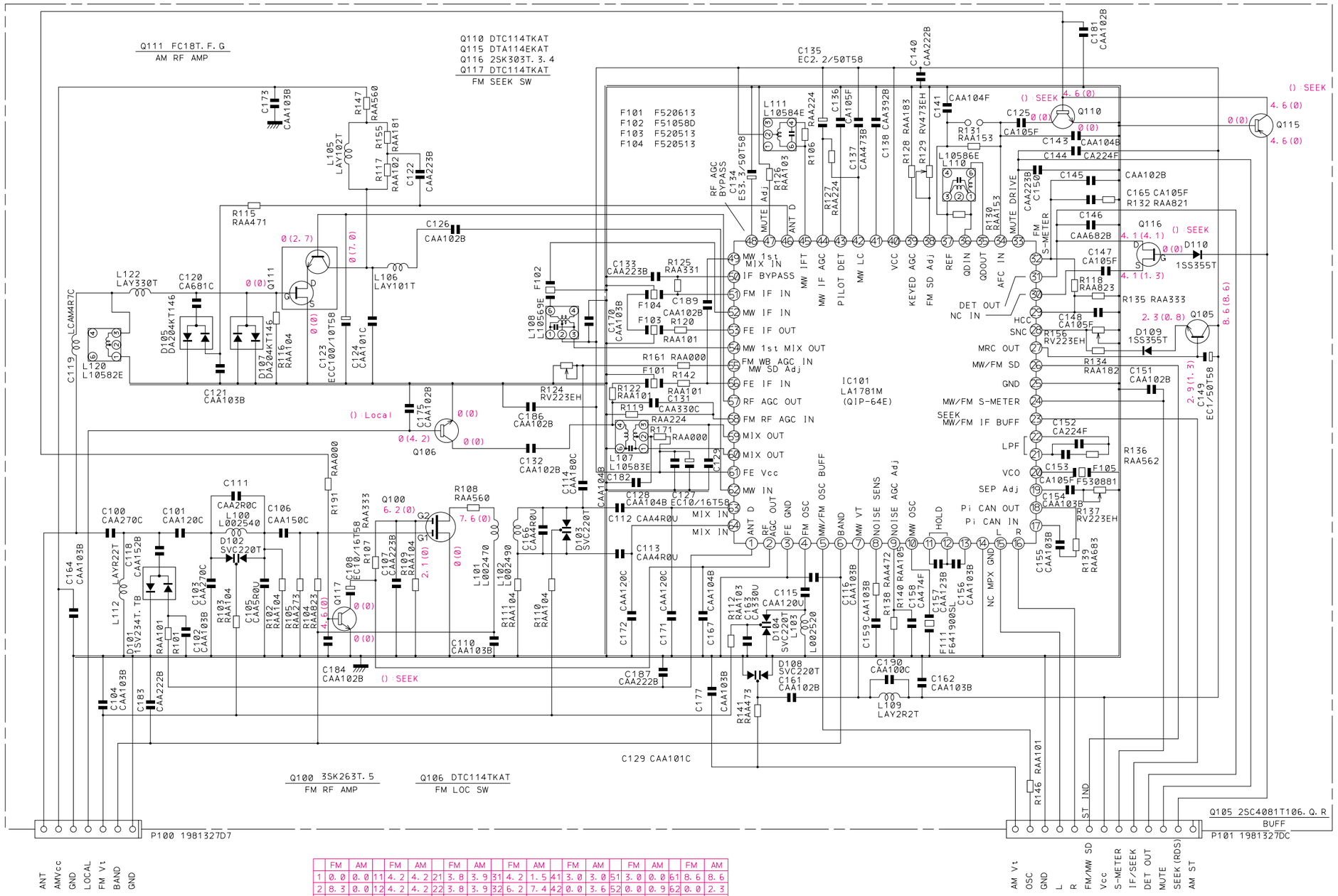
	FM		AM		FM		AM		FM		AM		FM		AM		FM		AM		FM		AM	
1	0.0	0.0	11	4.2	4.2	21	3.8	3.9	31	4.2	1.5	41	3.0	3.0	51	3.0	0.0	61	8.6	8.6				
2	8.3	0.0	12	4.2	4.2	22	3.8	3.9	32	6.2	7.4	42	0.0	3.6	52	0.0	0.9	62	0.0	2.3				
3	0.0	0.0	13	5.1	5.1	23	0.0	0.0	33	0.0	0.0	43	3.8	0.0	53	4.8	4.8	63	1.9	0.0				
4	3.3	0.0	14	0.0	0.0	24	6.6	2.3	34	5.1	5.1	44	0.0	3.5	54	8.6	8.6	64	1.9	0.0				
5	2.1	5.5	15	3.3	3.3	25	0.0	0.0	35	5.1	5.1	45	8.6	8.6	55	0.0	0.0							
6	8.5	0.0	16	3.3	3.3	26	5.2	5.3	36	5.1	5.1	46	0.0	1.1	56	2.1	2.1							
7	8.7	8.6	17	4.2	4.2	27	2.9	1.3	37	5.1	5.1	47	1.5	0.0	57	0.0	2.7							
8	2.3	0.0	18	1.5	1.7	28	1.1	0.0	38	2.6	0.0	48	0.0	0.9	58	4.2	4.3							
9	0.0	0.0	19	2.3	2.3	29	1.8	2.1	39	0.8	1.0	49	0.0	2.2	59	8.4	8.4							
10	0.0	5.9	20	4.1	3.9	30	4.1	4.2	40	8.6	8.6	50	3.0	0.0	60	8.4	8.4							

( ) : No mark is AM

98.1MHz Input level : 6dBμ No modulation Vol : 1
999kHz Input level : 74Bμ No modulation Vol : 1

FXD-780GD/RDS

SCHEMATIC DIAGRAM - RF33RN for FXD-780RDS/XE



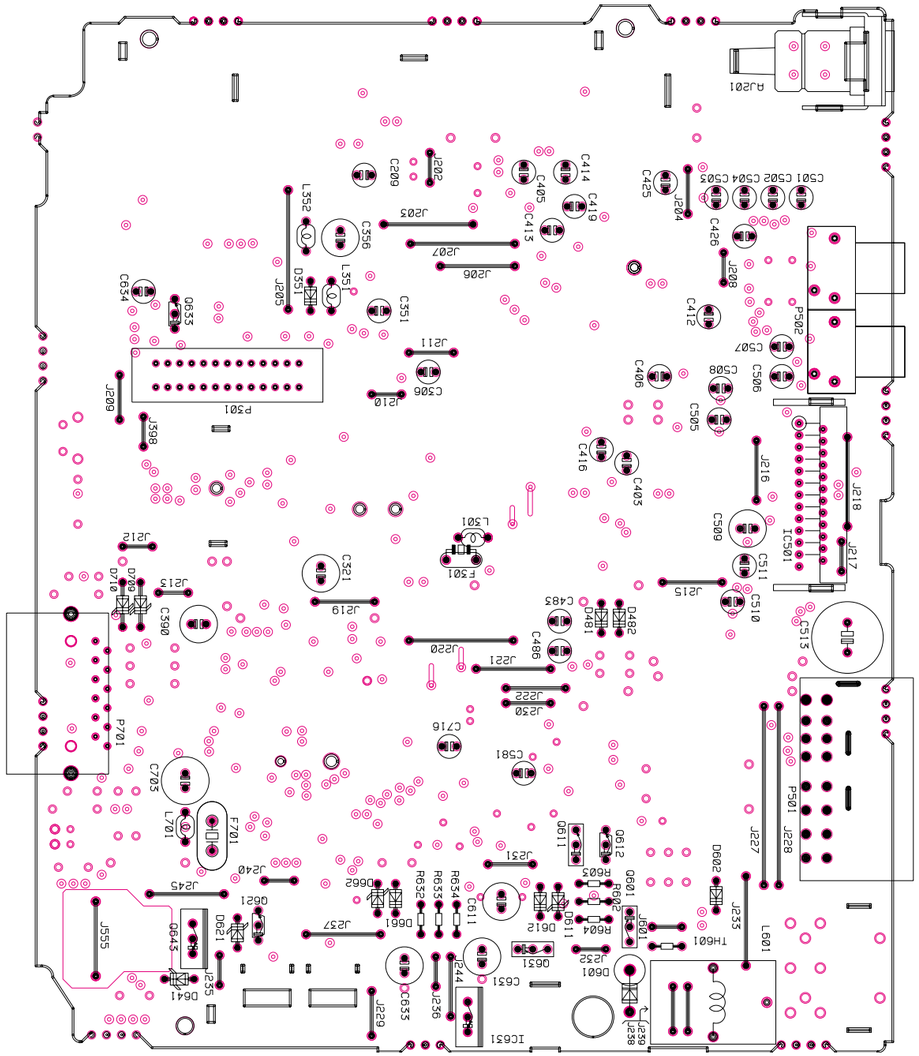
	FM	AM		FM	AM		FM	AM		FM	AM		FM	AM		FM	AM		FM	AM
1	0.0	0.0	11	4.2	4.2	21	3.8	3.9	31	4.2	1.5	41	3.0	3.0	51	3.0	0.0	61	8.6	8.6
2	8.3	0.0	12	4.2	4.2	22	3.8	3.9	32	6.2	7.4	42	0.0	3.6	52	0.0	0.9	62	0.0	2.3
3	0.0	0.0	13	5.1	5.1	23	0.0	0.0	33	0.0	0.0	43	3.8	0.0	53	4.8	4.8	63	1.9	0.0
4	3.3	0.0	14	0.0	0.0	24	6.6	2.3	34	5.1	5.1	44	0.0	3.5	54	8.6	8.6	64	1.9	0.0
5	2.1	5.5	15	3.3	3.3	25	0.0	0.0	35	5.1	5.1	45	8.6	8.6	55	0.0	0.0			
6	8.5	0.0	16	3.3	3.3	26	5.2	5.3	36	5.1	5.1	46	0.0	1.1	56	2.1	2.1			
7	8.7	8.6	17	4.2	4.2	27	2.9	1.3	37	5.1	5.1	47	1.5	0.0	57	0.0	2.7			
8	2.3	0.0	18	1.5	1.7	28	1.1	0.0	38	2.6	0.0	48	0.0	0.9	58	4.2	4.3			
9	0.0	0.0	19	2.3	2.3	29	1.8	2.1	39	0.8	1.0	49	0.0	2.2	59	8.4	8.4			
10	0.0	5.9	20	4.1	3.9	30	4.1	4.2	40	8.6	8.6	50	3.0	0.0	60	8.4	8.4			

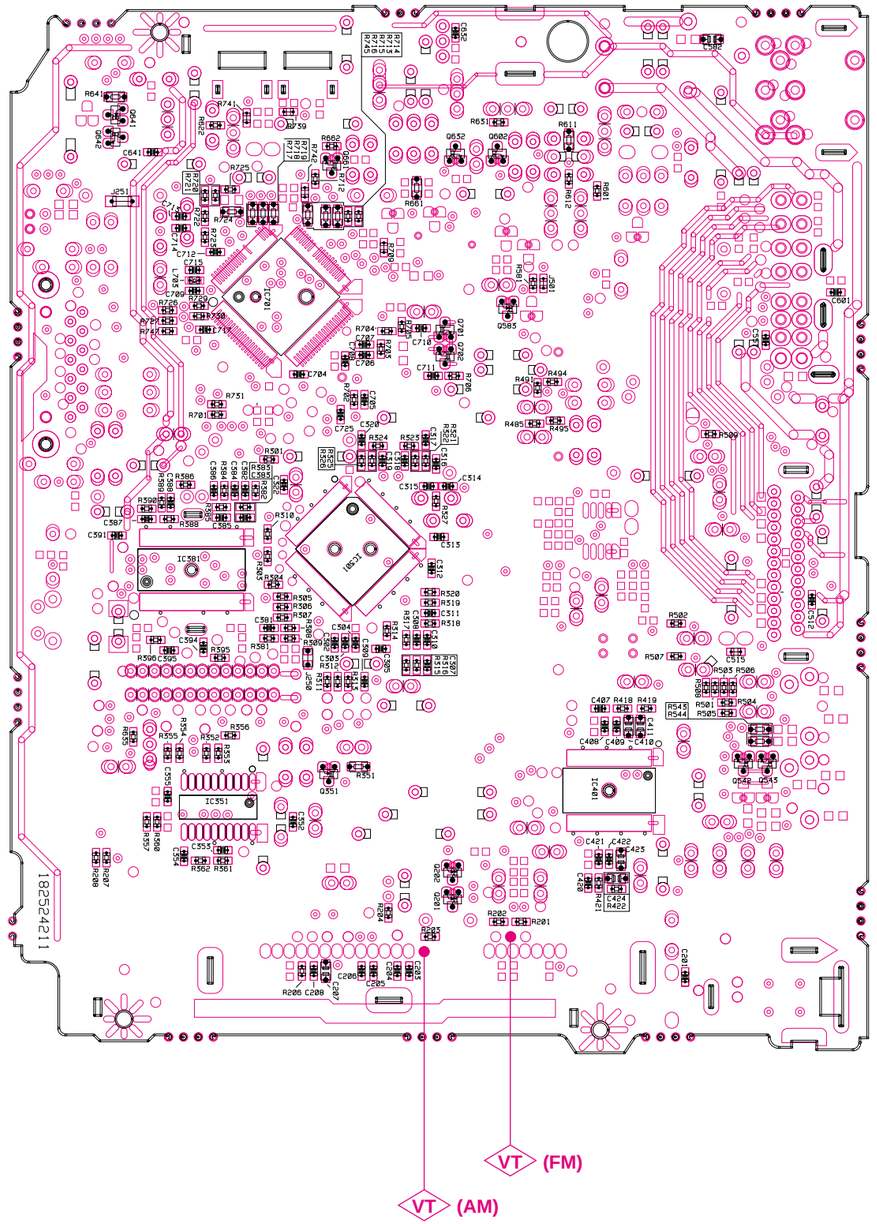
( ) : No mark is AM

98.1MHz Input level : 6dBμ No modulation Vol : 1
999kHz Input level : 74Bμ No modulation Vol : 1

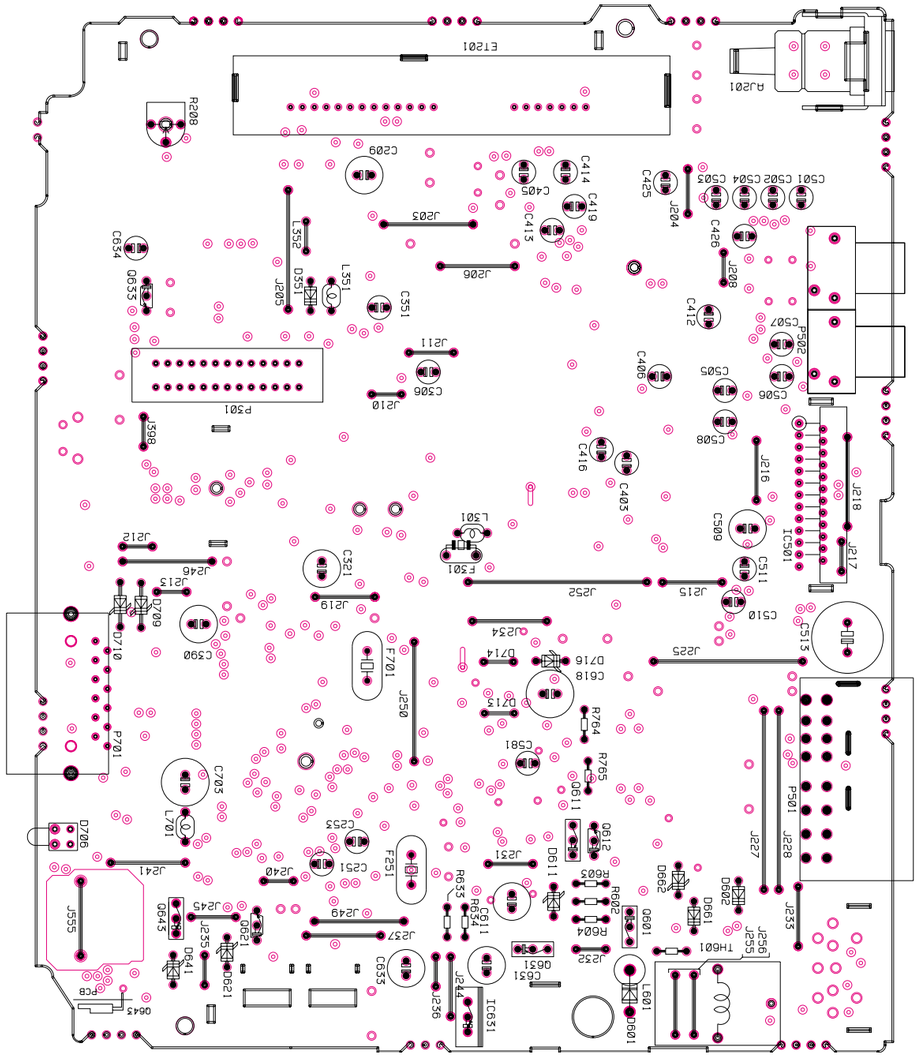
FXD-780GD/RDS

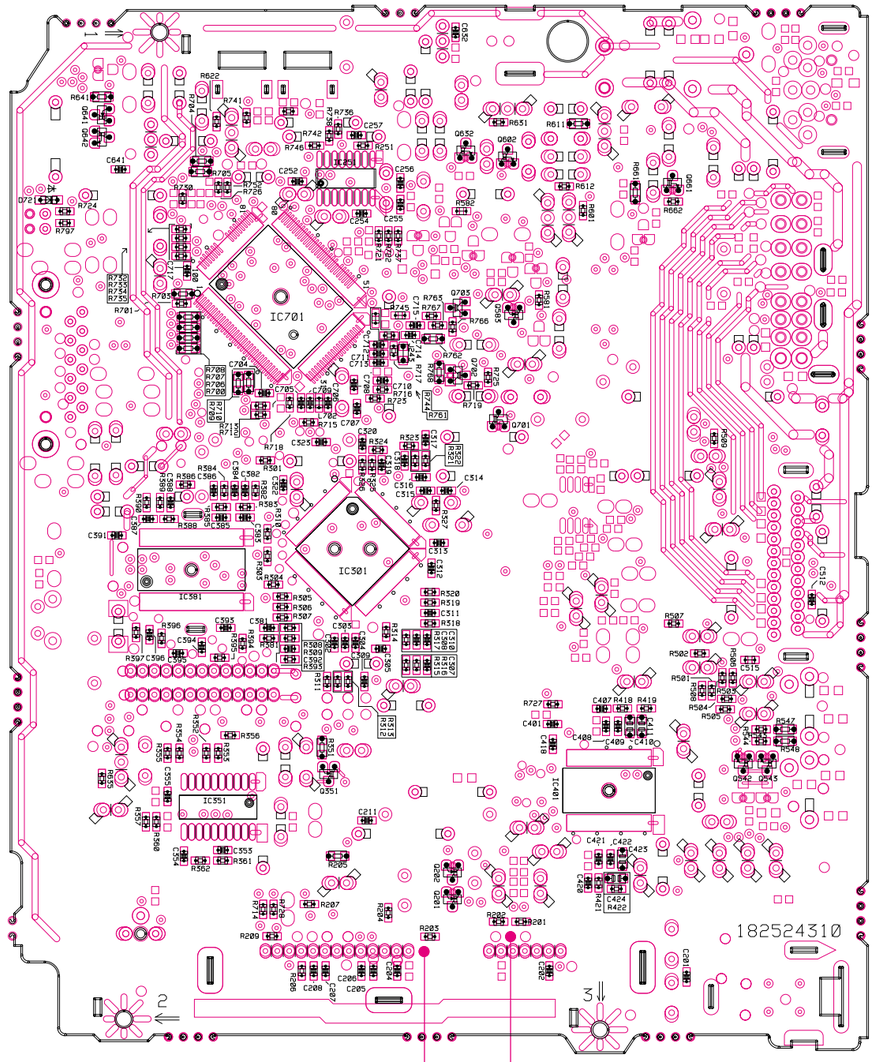
CIRCUIT BOARD DIAGRAM - MAIN for FXD-780GD/SS, BK.SS



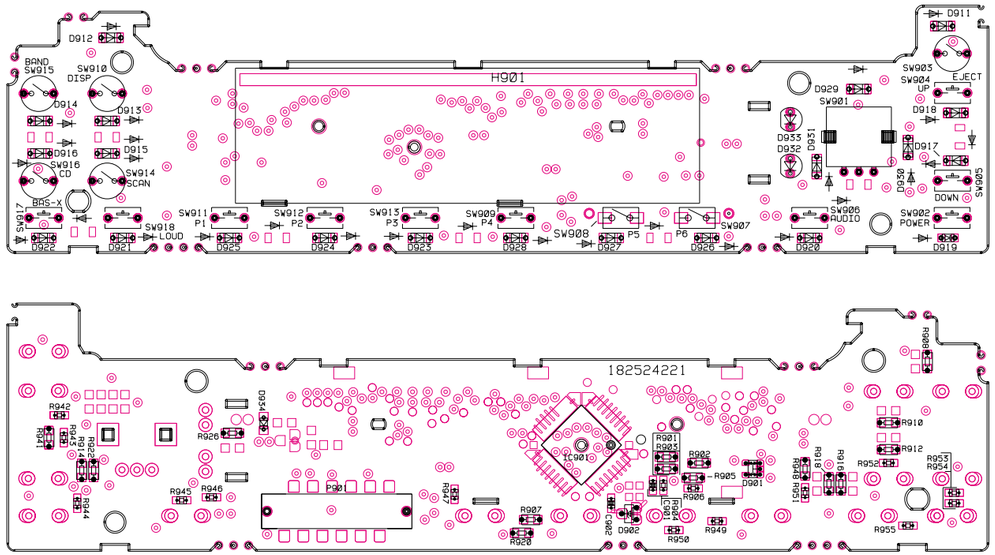


CIRCUIT BOARD DIAGRAM - MAIN for FXD-780RDS/XE

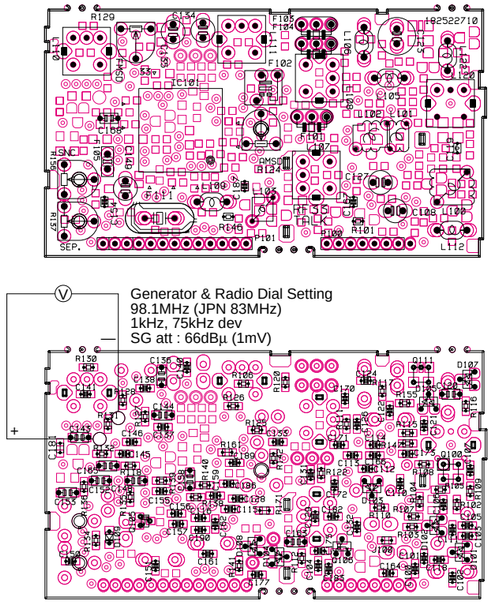




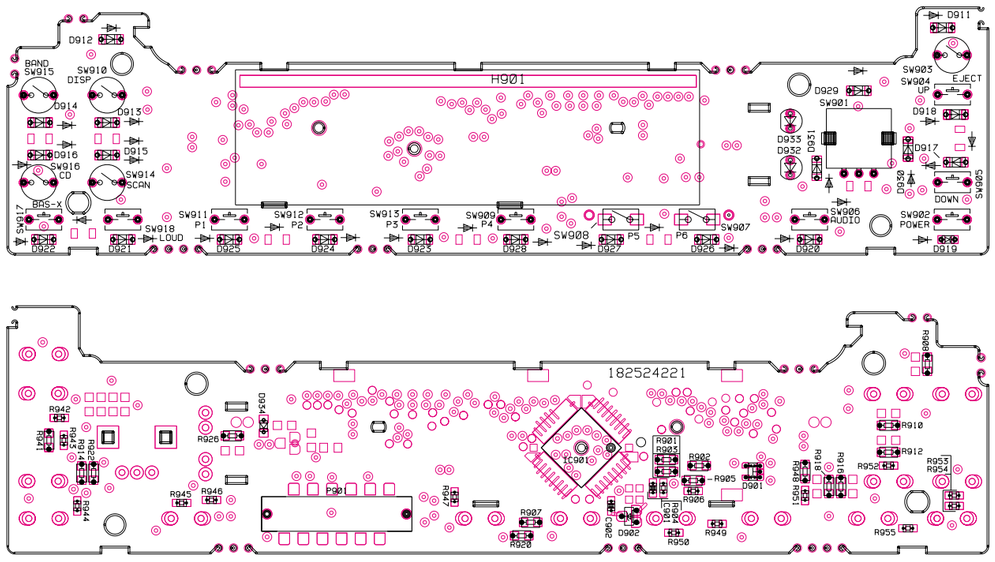
CIRCUIT BOARD DIAGRAM - DISPLAY for FXD-780GD/SS, BK.SS



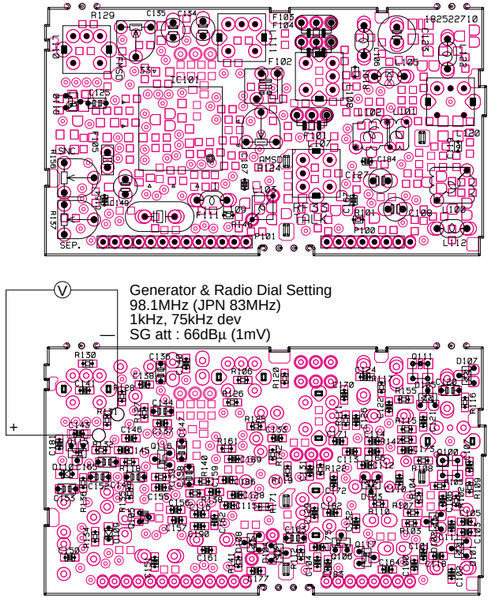
CIRCUIT BOARD DIAGRAM - RF33SS for FXD-780GD/SS, BK.SS



CIRCUIT BOARD DIAGRAM - DISPLAY for FXD-780RDS/XE



CIRCUIT BOARD DIAGRAM - RF33RN for FXD-780RDS/XE



FXD-780GD/RDS

FXD-780GD
FXD-780RDS
No. 289A3060
Printed in Japan Issue date 05-02